



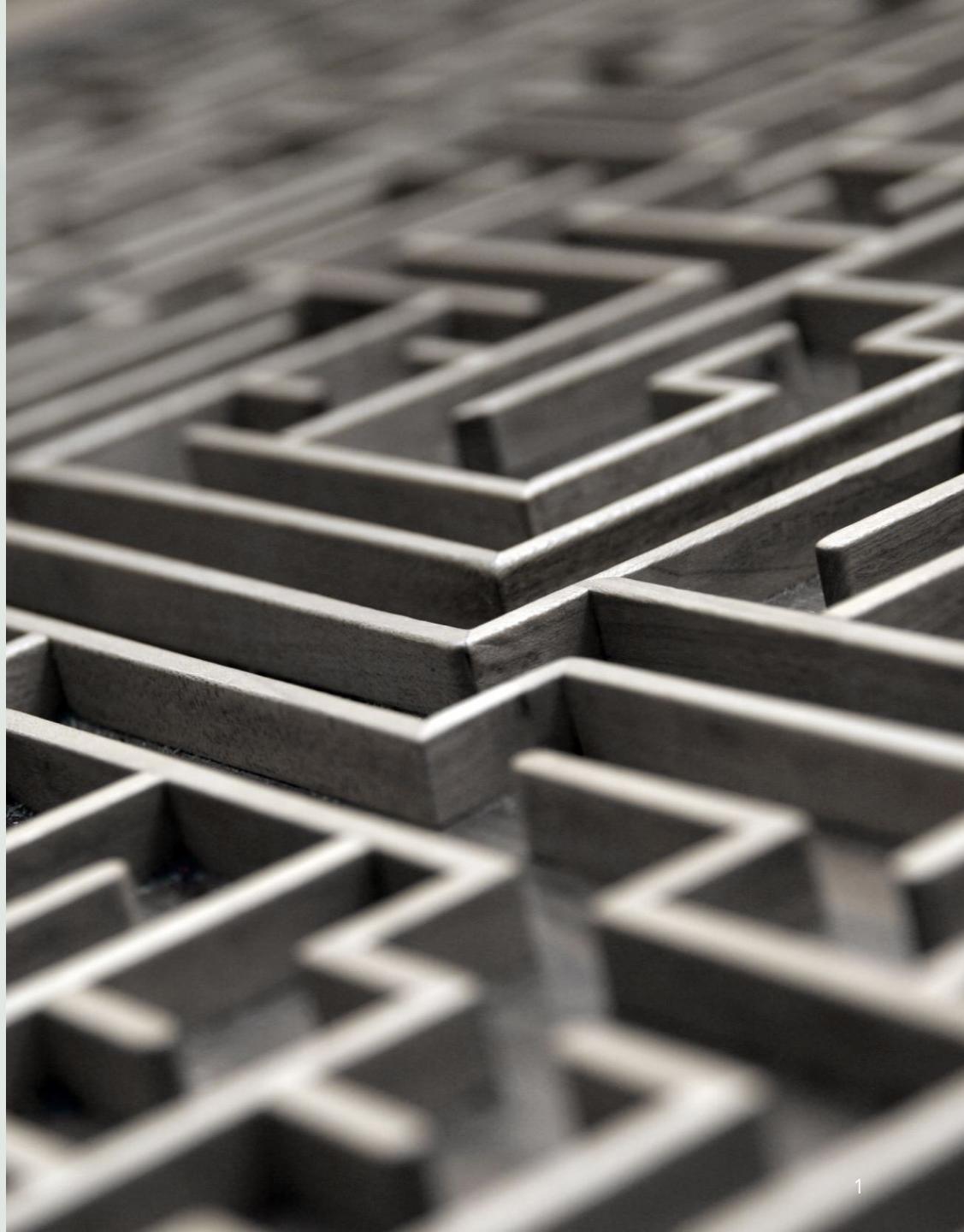
Medical Geography Python Programming

Chun-Hsiang Chan Ph.D.

Department of Geography,
National Taiwan Normal University

Outline

- COVID-19 Pandemic
- Python Installation
- Git Installation



Discussion

- How can we leverage the geographic visualization approach to demonstrate the spatiotemporal characteristics of COVID-19 pandemic?
- Mapping?
- Descriptive statistics?
- Animation?
- Other approaches...

Download Anaconda

- We will use ipython notebook through out the course.
- Here is the download link: <https://www.anaconda.com/download>
- If your computer has no sufficient space for install anaconda, you may consider the light version - miniconda, as follows,
<https://docs.conda.io/projects/miniconda/en/latest/miniconda-install.html>

Anaconda Distribution

Free Download

Everything you need to get started in data science on your workstation.

- ✓ Free distribution install
- ✓ Thousands of the most fundamental DS, AI, and ML packages
- ✓ Manage packages and environments from desktop application
- ✓ Deploy across hardware and software platforms

[Code in the Cloud](#)[Download](#)[Get Additional Installers](#)

**Download anaconda for windows/
mac/ linux, depending on your
system environment**



Open Source

Access the open-source software you need for projects in any field, from data visualization



User-friendly

With our intuitive platform, you can easily search and install packages and create, load, Chun-Hsiang Chan (2023)

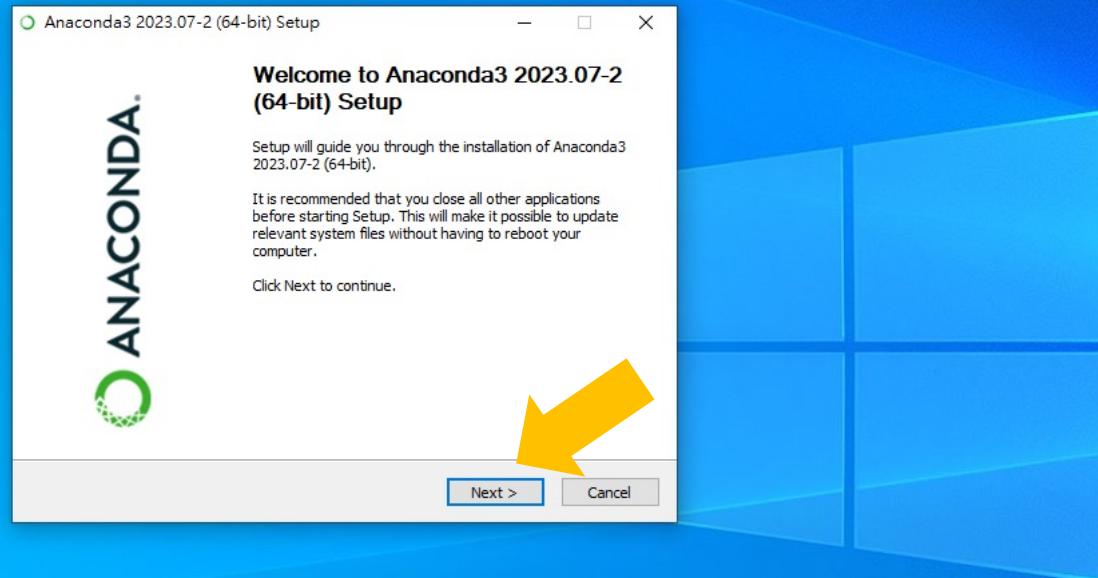


Trusted

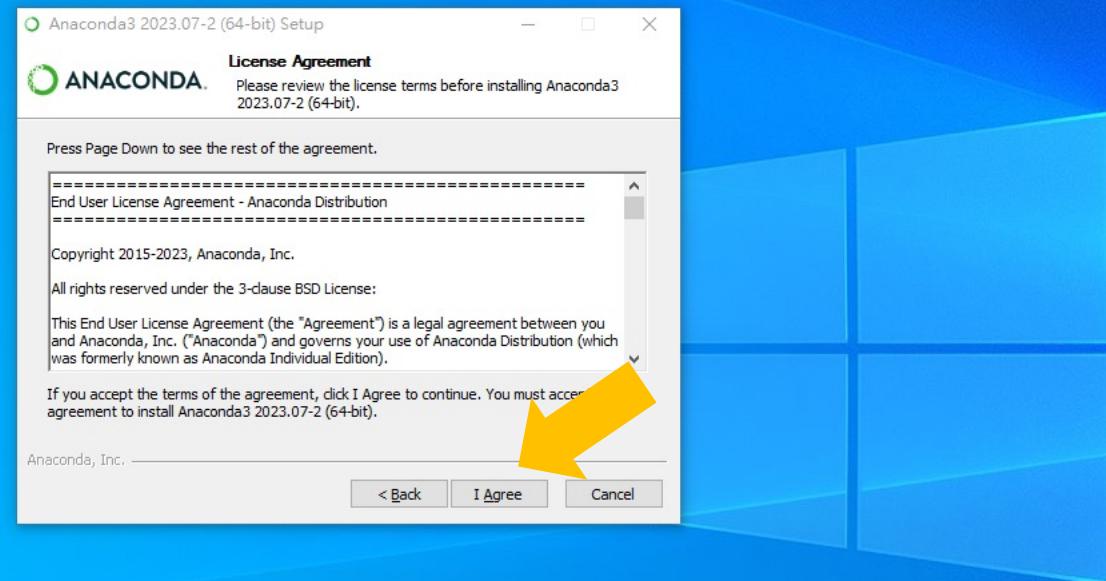
Our securely hosted packages and artifacts are methodically tested and regularly updated.

Hey! 🌟 Welcome to Anaconda here to help. What are you looking for today?

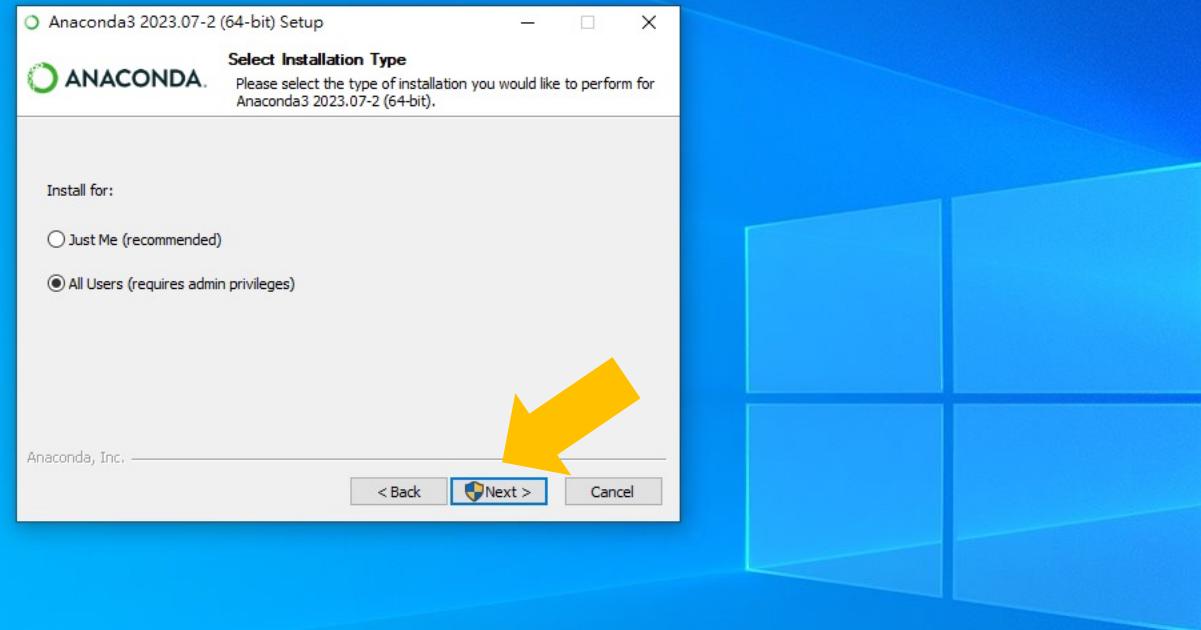
**Open the .exe (by Run As Administrator/系統管理員) or .dmg files
Click Next**



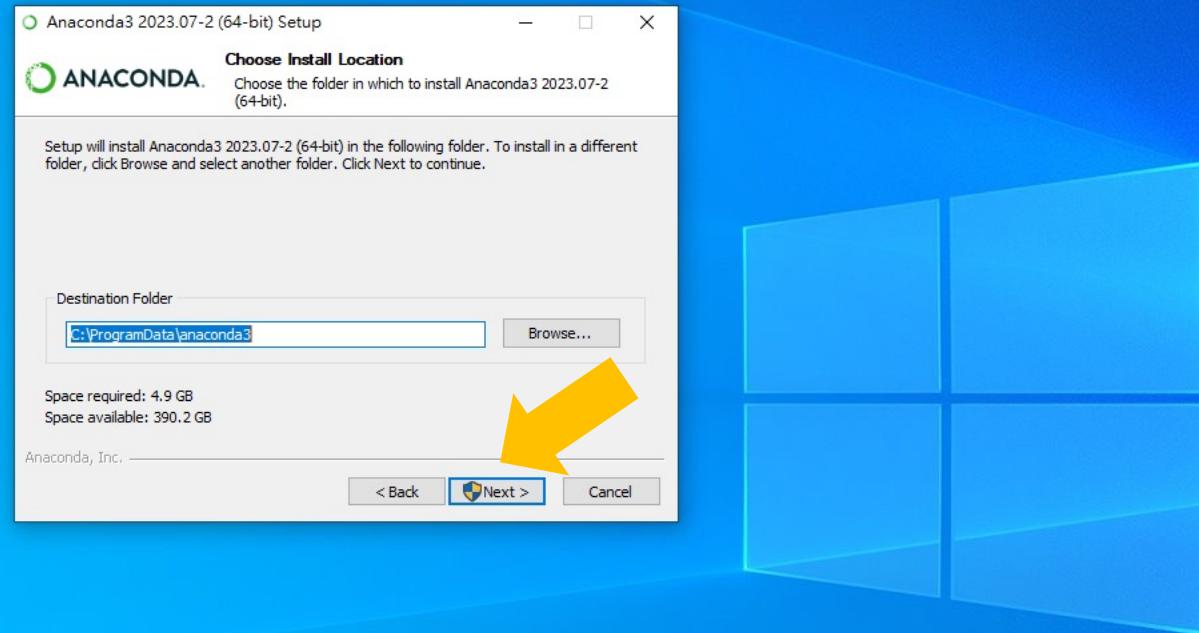
Click "I Agree"



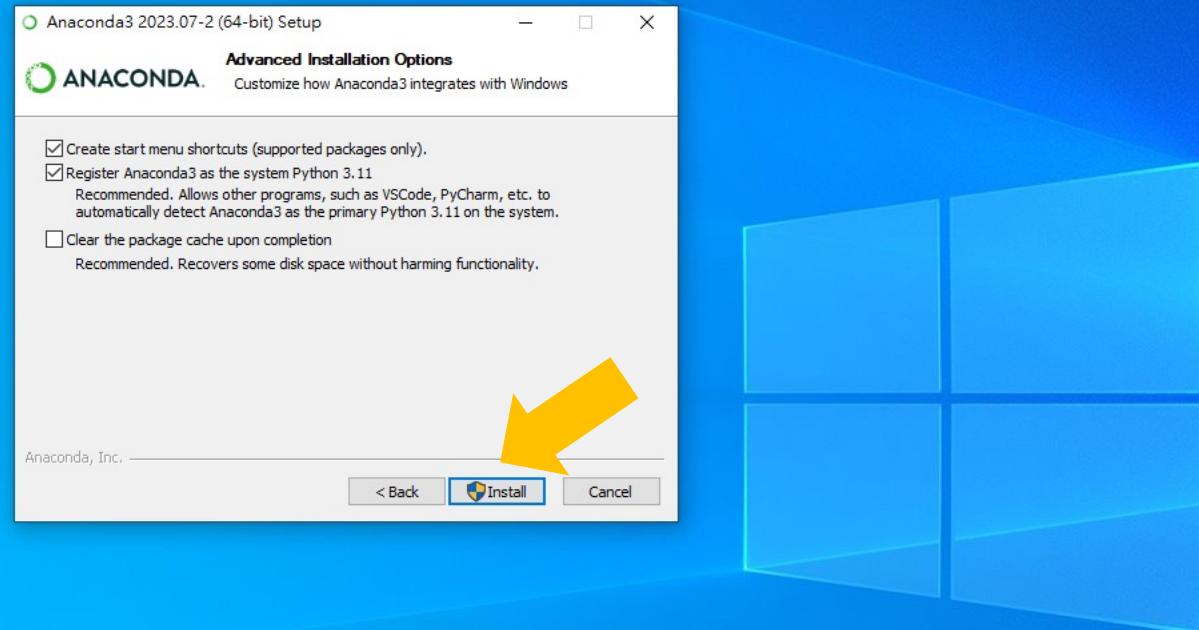
Click “Next”



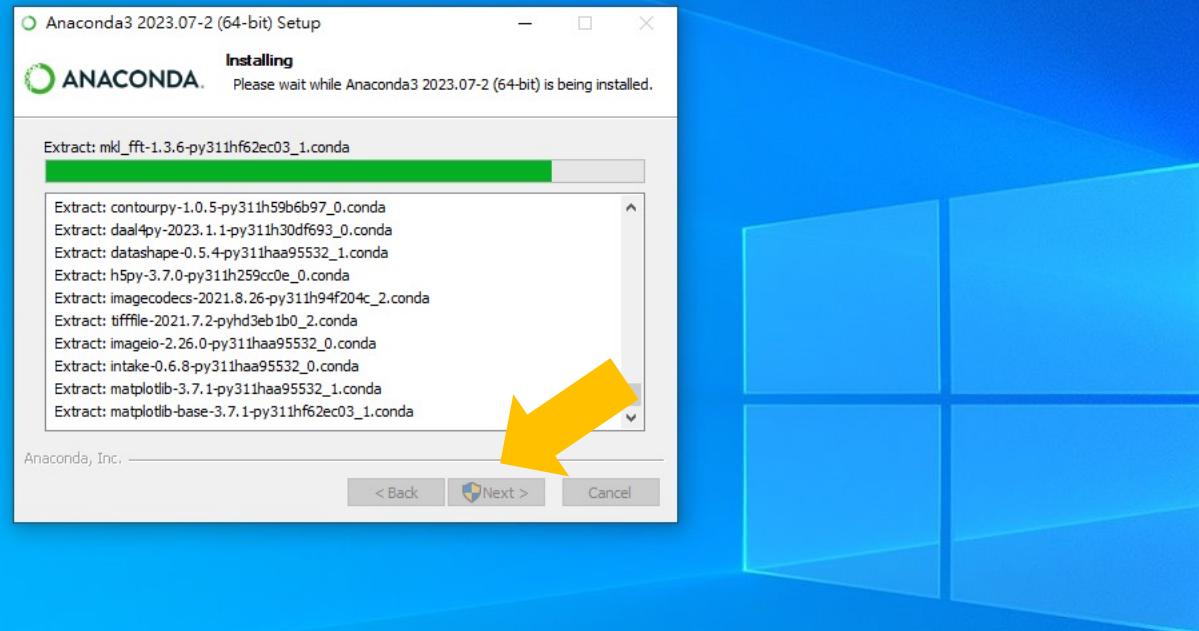
Click “Next”



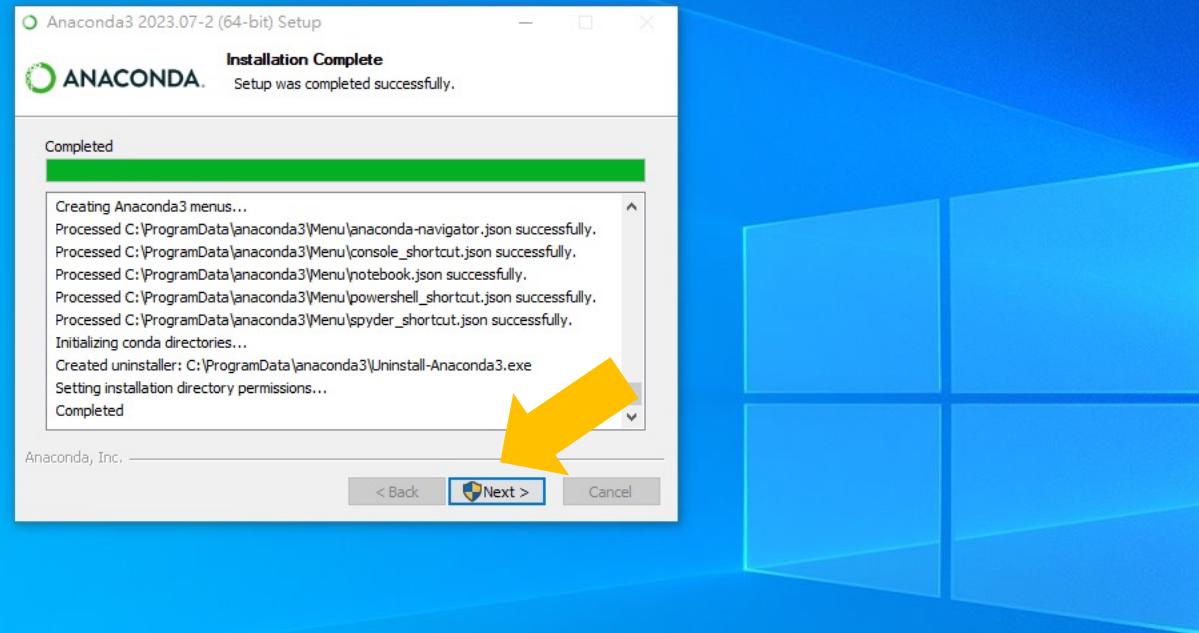
Click “Install”



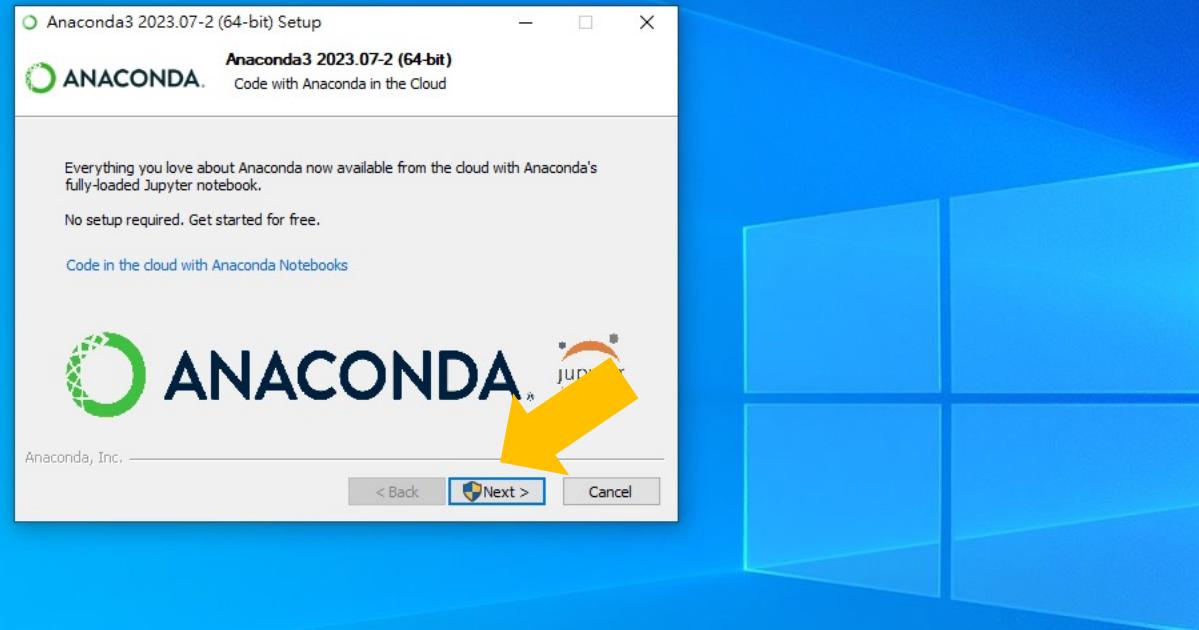
Click “Next”



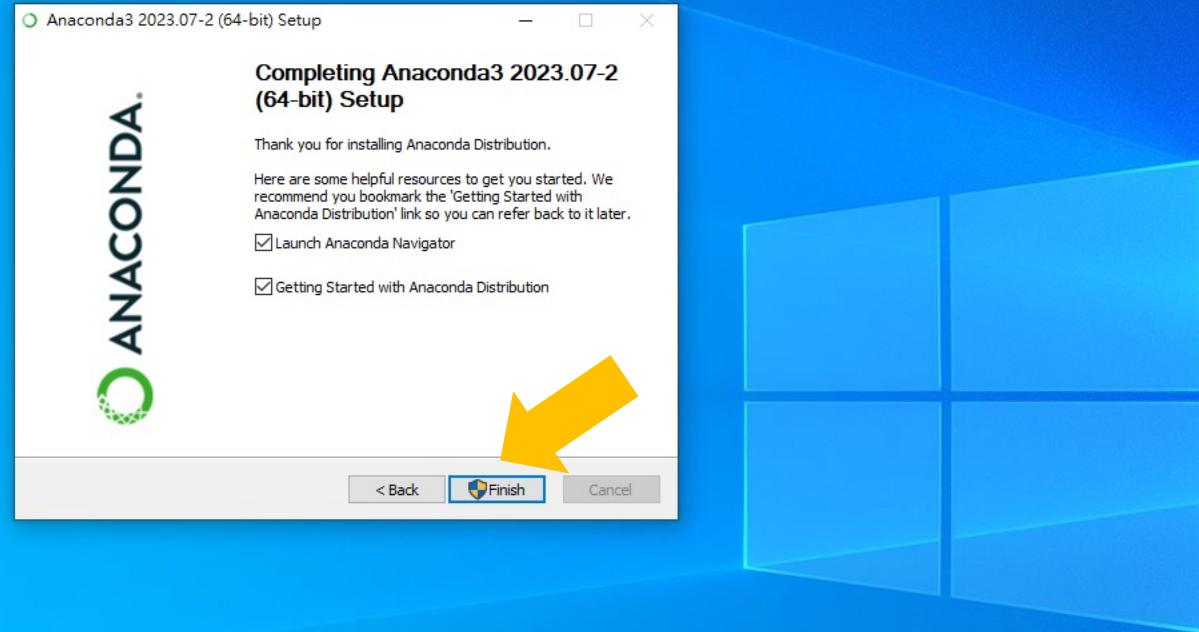
Click “Next”



Click “Next”



Click “Finish”



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Anaconda Notebooks
Cloud notebooks with hundreds of packages ready to code.

A Full Python IDE directly from the browser

Documentation

Anaconda Blog



All applications on base (root) Channels

DataSpell

DataSpell is an IDE for exploratory data analysis and prototyping machine learning models. It combines the interactivity of Jupyter notebooks with the intelligent Python and R coding assistance of PyCharm in one user-friendly environment.

[Install](#)

Anaconda Notebooks

Cloud-hosted notebook service from Anaconda. Launch a preconfigured environment with hundreds of packages and store project files with persistent cloud storage.

[Launch](#)

CMD.exe Prompt 0.1.1

Run a cmd.exe terminal with your current environment from Navigator activated

[Launch](#)

JupyterLab 3.6.3

An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.

[Launch](#)

Notebook 6.5.4

Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.

[Launch](#)

PowerShell Prompt 0.0.1

Run a PowerShell terminal with your current environment from Navigator activated

[Launch](#)

Qt Console 5.4.2

PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.

[Launch](#)

Spyder 5.4.3

Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features

[Launch](#)

Datalore

Kick-start your data science projects in seconds in a pre-configured environment. Enjoy coding assistance for Python, SQL, and R in Jupyter notebooks and benefit from no-code automations. Use Datalore online for free.

[Launch](#)

IBM Watson Studio Cloud

IBM Watson Studio Cloud provides you the tools to analyze and visualize data, to cleanse and shape data, to create and train machine learning models. Prepare data and build models, using open source data science tools or visual modeling.

[Launch](#)

ORACLE Cloud Infrastructure

Oracle Data Science Service

OCI Data Science offers a machine learning platform to build, train, manage, and deploy your machine learning models on the cloud with your favorite open-source tools

[Launch](#)

console_shortcut_miniconda 0.1.1

[Install](#)

Glueviz 1.2.4

Multidimensional data visualization across files. Explore relationships within and among related datasets.

Orange 3 3.34.0

Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.

powershell_shortcut_miniconda 0.0.1

PyCharm Professional

A Full-fledged IDE by JetBrains for both Scientific and Web Python development. Supports HTML, JS, and SQL.

RStudio 1.1.456

A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.

Click "Launch"





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Email Address

Sign In

Sign with "email"





Quit

Logout

Files Running Clusters

Select items to perform actions on them.

Upload New

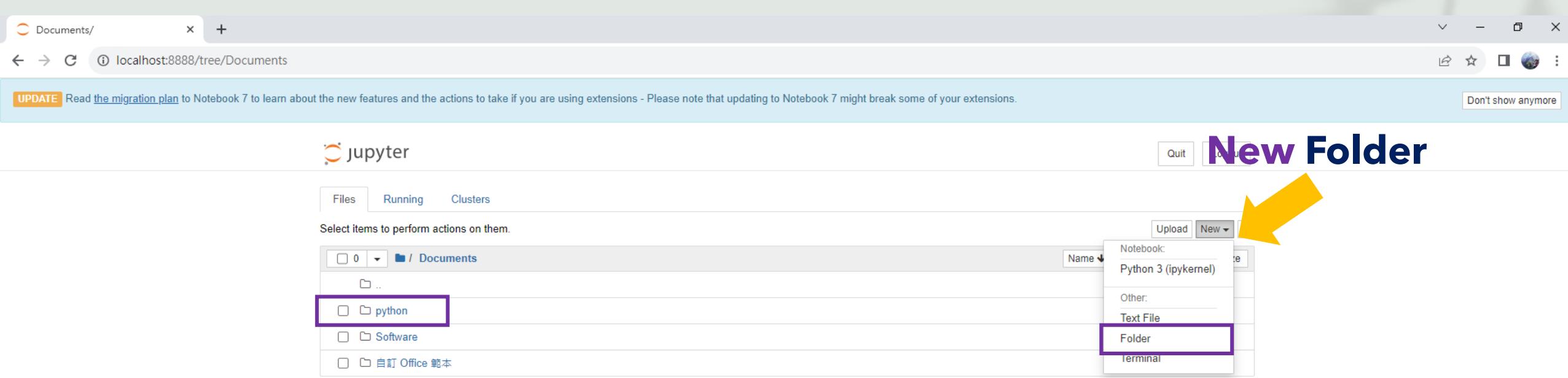
Name ↓ Last Modified File size

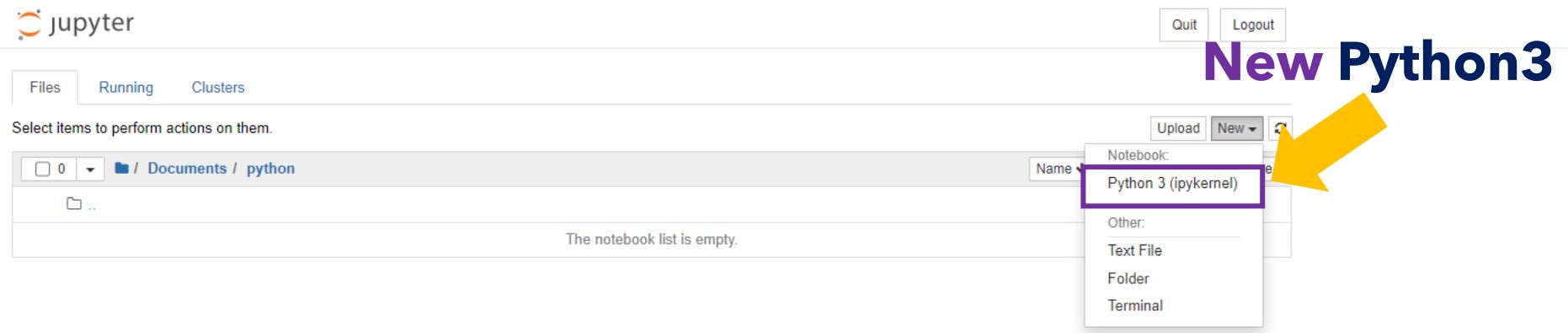
0 /

Click "Documents"



<input type="checkbox"/>	Documents	4年前
<input type="checkbox"/>	Downloads	32分钟前
<input type="checkbox"/>	Favorites	4年前
<input type="checkbox"/>	Links	4年前
<input type="checkbox"/>	Music	4年前
<input type="checkbox"/>	OneDrive	4天前
<input type="checkbox"/>	Pictures	4年前
<input type="checkbox"/>	Saved Games	4年前
<input type="checkbox"/>	Searches	4年前
<input type="checkbox"/>	Videos	4天前





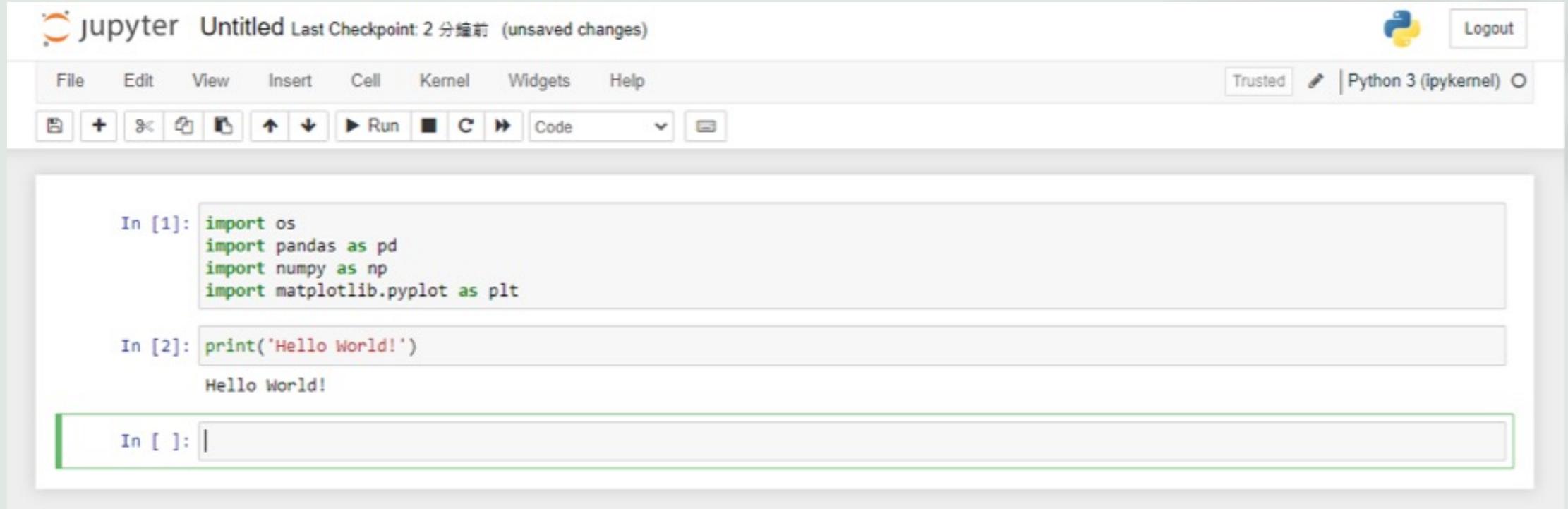
The screenshot shows a Jupyter Notebook interface. At the top, there's a toolbar with File, Edit, View, Insert, Cell, Kernel, Widgets, Help, and a Python 3 (ipykernel) kernel selection. Below the toolbar is a menu bar with icons for file operations like Open, Save, and Run. A status bar at the bottom indicates the current cell is 'In []'. The main area contains a cell with the word 'Cell' in large purple font. A large, semi-transparent overlay window titled 'Command Mode (press Esc to enable)' lists various keyboard shortcuts for cell management and selection. The overlay includes a 'Edit Shortcuts' button in the top right corner.

Command Mode (press Esc to enable)

>Edit Shortcuts

- F: find and replace
- Esc: enter edit mode
- ⌘F: open the command palette
- ⌘P: open the command palette
- P: open the command palette
- ↑↓: run cell, select below
- ^↓: run selected cells
- ⌘↓: run selected cells
- ↖↓: run cell and insert below
- Y: change cell to code
- M: change cell to markdown
- R: change cell to raw
- 1: change cell to heading 1
- 2: change cell to heading 2
- 3: change cell to heading 3
- 4: change cell to heading 4
- 5: change cell to heading 5
- 6: change cell to heading 6
- K: select cell above
- ↑: select cell above
- ↓: select cell below
- J: select cell below
- ↑K: extend selected cells above
- ↑↑: extend selected cells above
- ↑↓: extend selected cells below
- ↑J: extend selected cells below
- ⌘A: select all cells
- A: insert cell above
- B: insert cell below
- X: cut selected cells
- C: copy selected cells
- ↑V: paste cells above
- V: paste cells below
- Z: undo cell deletion
- D, ⌘D: delete selected cells
- ⌘M: merge selected cells, or current cell with cell below if only one cell is selected
- ⌘S: Save and Checkpoint
- S: Save and Checkpoint
- L: toggle line numbers
- O: toggle output of selected cells
- ↑O: toggle output scrolling of selected cells
- H: show keyboard shortcuts
- I, ⌘I: interrupt the kernel
- 0, ⌘0: restart the kernel (with dialog)
- Esc: close the pager
- Q: close the pager
- ↑L: toggles line numbers in all

Hello World



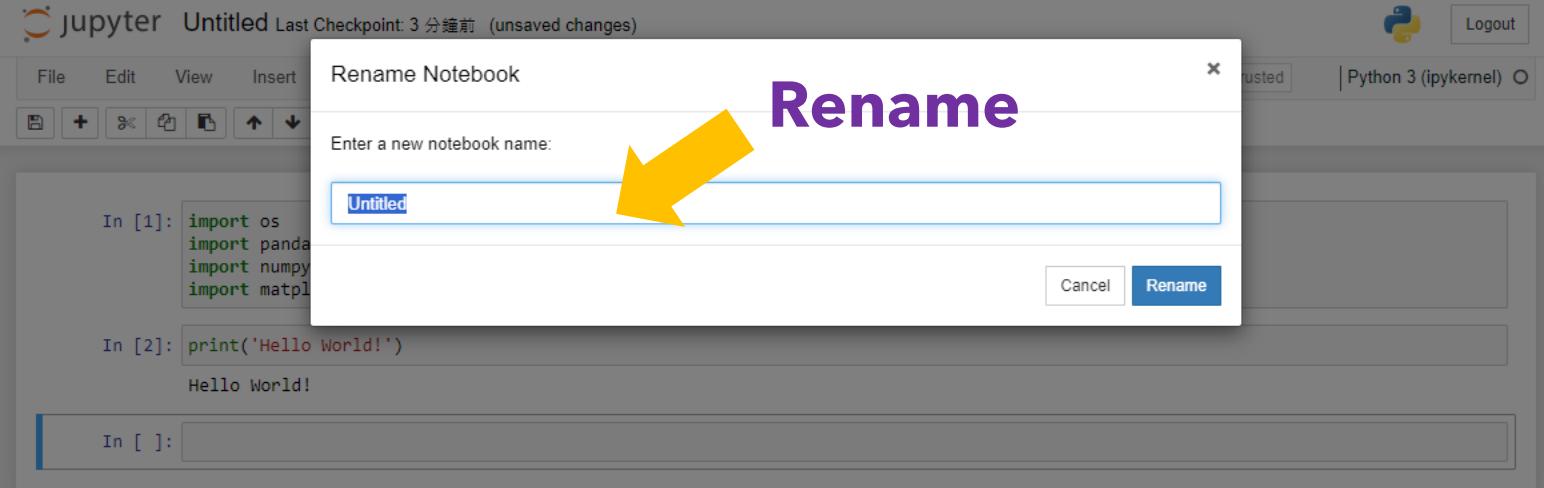
The screenshot shows a Jupyter Notebook interface with the following details:

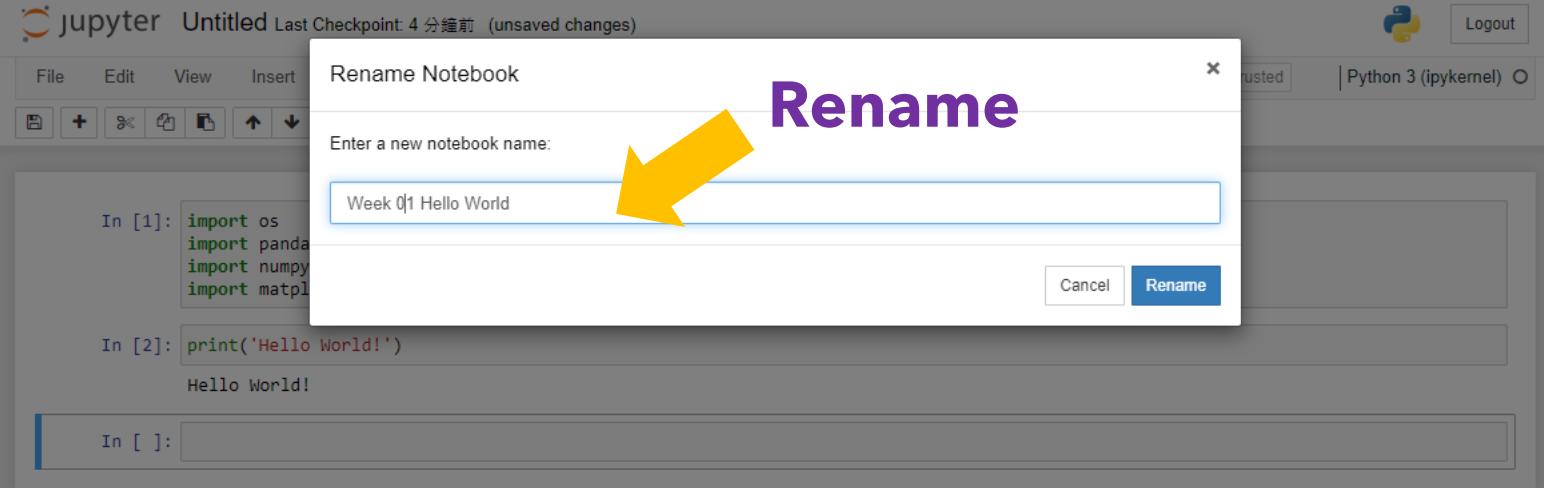
- Header:** jupyter Untitled Last Checkpoint: 2 分鐘前 (unsaved changes)
- Toolbar:** File, Edit, View, Insert, Cell, Kernel, Widgets, Help, Trusted, Python 3 (ipykernel), Logout.
- Buttons:** New, Open, Save, Cell, Run, Kernel, Code dropdown, Cell dropdown.
- In [1]:**

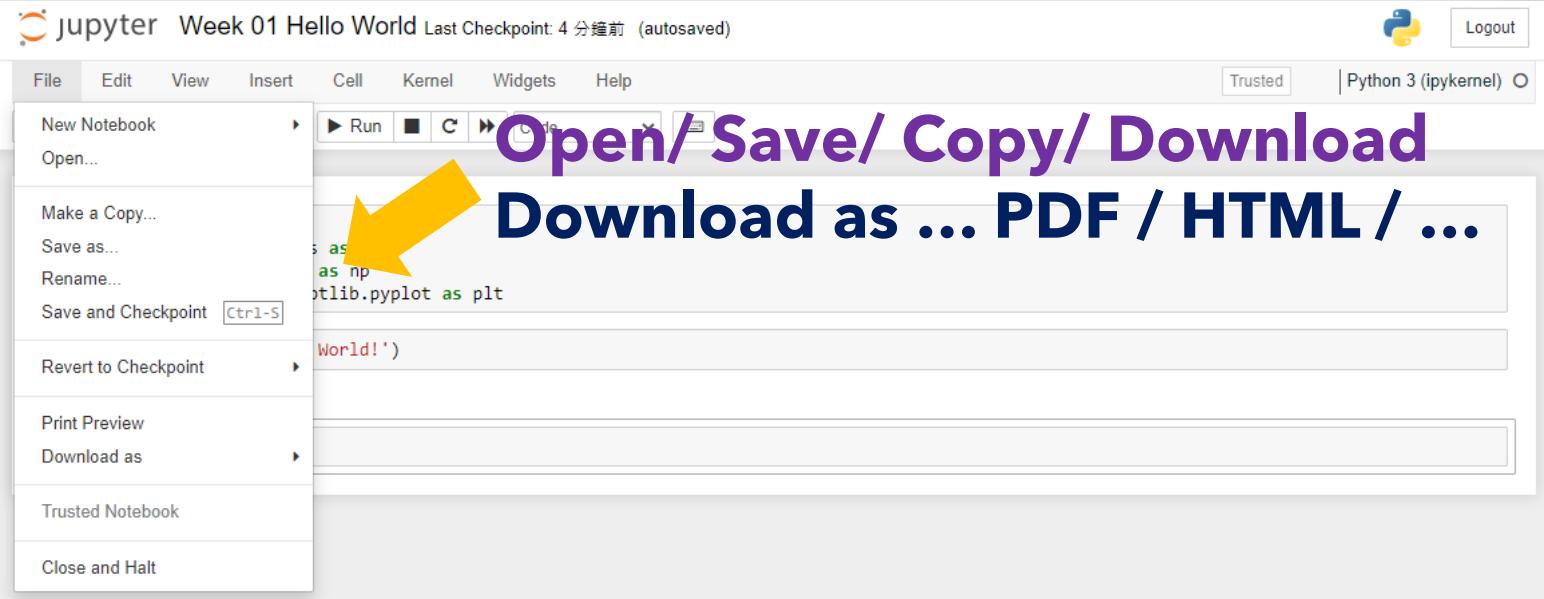
```
import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```
- In [2]:**

```
print('Hello World!')
```


Output: Hello World!
- In []:** An empty code cell with a green border.







Open/ Save/ Copy/ Download

Download as ... PDF / HTML / ...



File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) Logout

Cut Cells X

Copy Cells C

Paste Cells Above Shift-V

Paste Cells Below V

Paste Cells & Replace

Delete Cells D, D

Undo Delete Cells Z

Split Cell Ctrl-Shift-Minus

Merge Cell Above

Merge Cell Below

Move Cell Up

Move Cell Down

Edit Notebook Metadata

Find and Replace

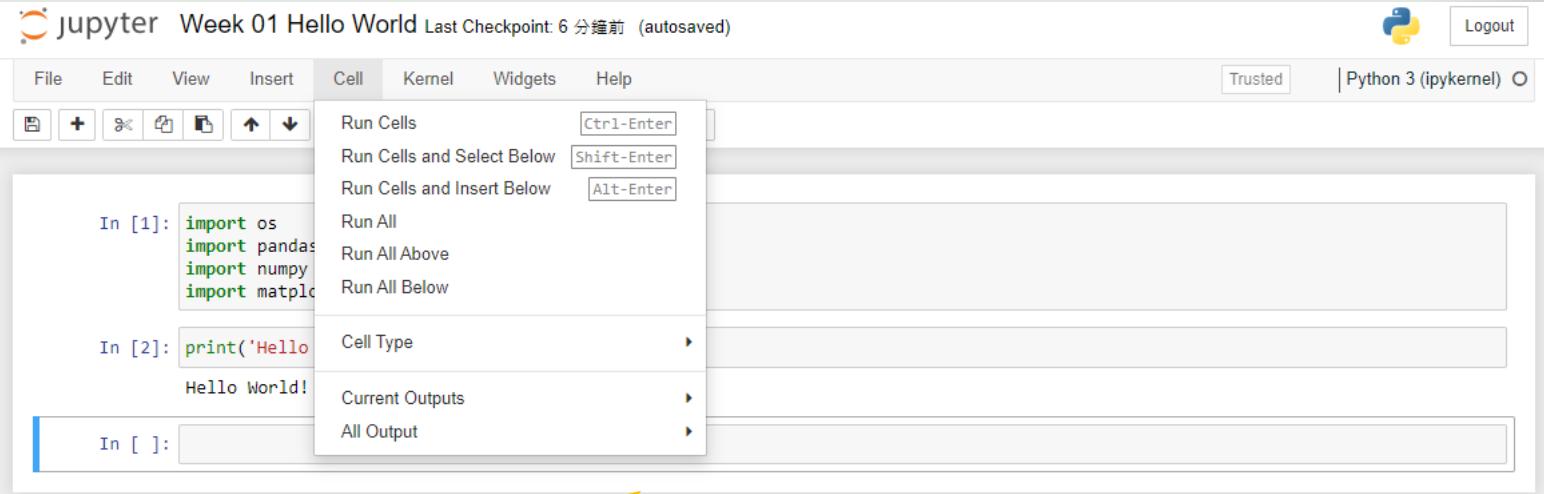
Cut Cell Attachments

Copy Cell Attachments

Paste Cell Attachments

Insert Image

Cell Part
Cut (X) / Copy (C) / Delete (DD)/ Paste (V)/ ...



Run Cell/ Run All (Above/ Below)



File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) Logout

In [1]:
import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

In [2]:
print('Hello World!')
Hello World!

In []:

Interrupt 1,1
Restart 0,0
Restart & Clear Output
Restart & Run All
Reconnect
Shutdown
Change kernel ▾



Kernel: Interrupt/ Restart (Clear/ All)/ Reconnect/ Shutdown



File Edit View Insert Cell Kernel Widgets



```
In [1]: import os  
import pandas as pd  
import numpy as np  
import matplotlib.pyplot as plt
```

```
In [2]: print('Hello World!')  
Hello World!
```

```
In [ ]:
```

Help

Trusted

Python 3 (ipykernel) O

User Interface Tour

Keyboard Shortcuts H

Edit Keyboard Shortcuts

Notebook Help

Markdown

Python Reference

IPython Reference

NumPy Reference

SciPy Reference

Matplotlib Reference

SymPy Reference

pandas Reference

About

Shortcuts





File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3 (ipykernel) O

```
import matplotlib.pyplot as plt
```

```
In [2]: print('Hello World!')
```

```
Hello World!
```

```
In [3]: a = [0,1,2,3,4,5,6]  
b = [2,4,6,8,10,11,12]
```

list

Print variable

```
In [4]: print(a)
```

```
[0, 1, 2, 3, 4, 5, 6]
```

View variable

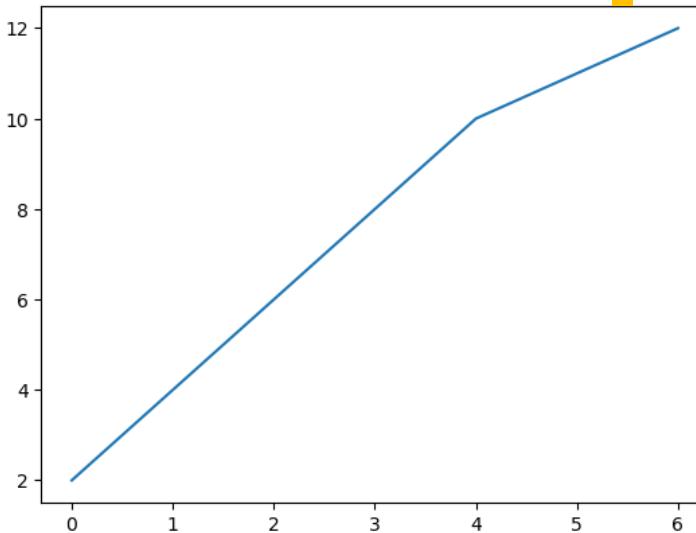
```
In [5]: a
```

```
Out[5]: [0, 1, 2, 3, 4, 5, 6]
```

Plot variable

```
In [6]: plt.plot(a, b)  
plt.show()
```

Run few codes for fun



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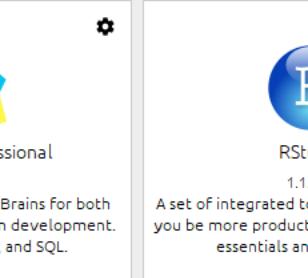
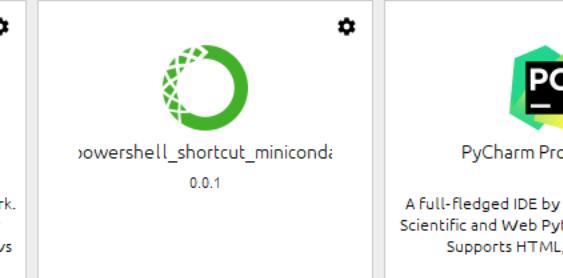
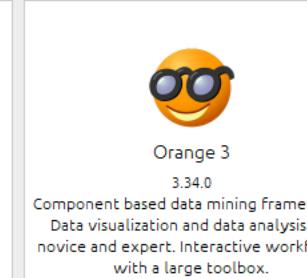
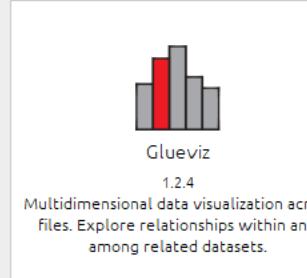
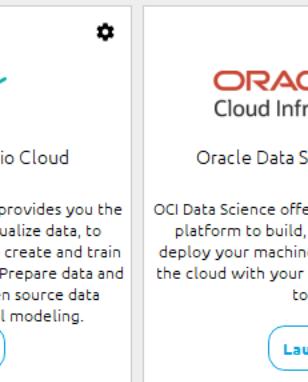
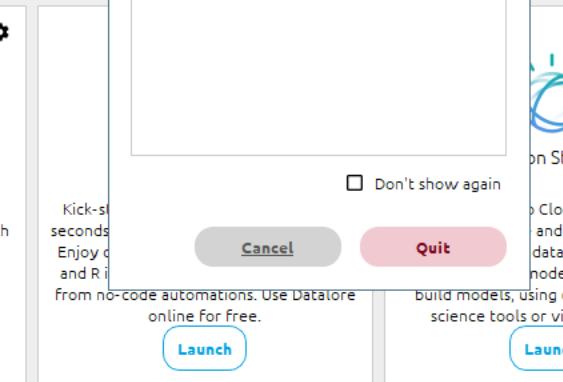
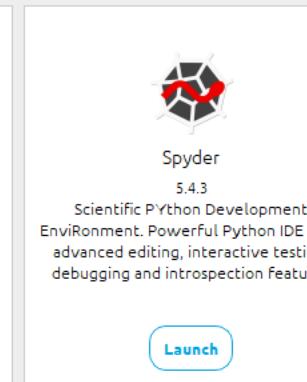
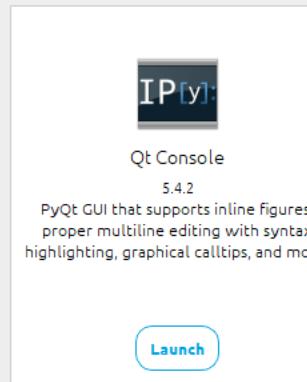
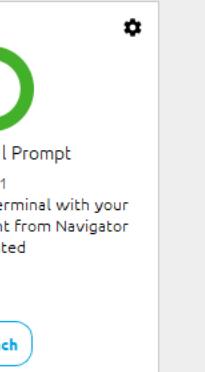
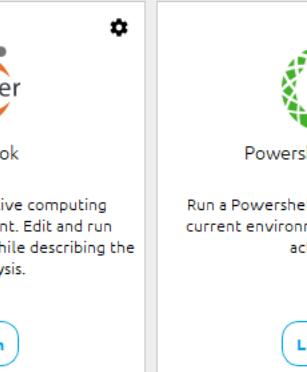
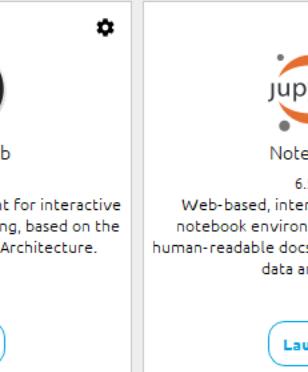
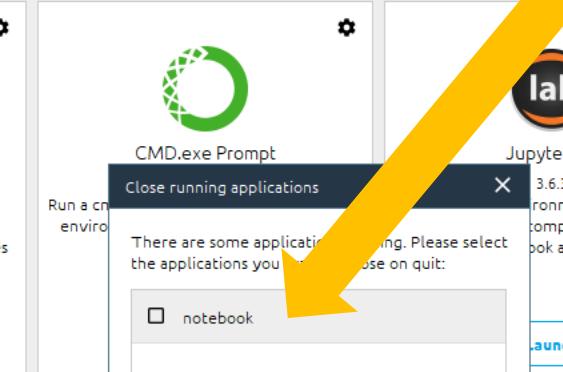
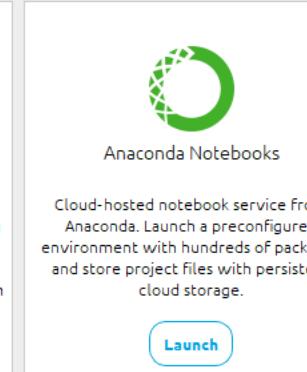
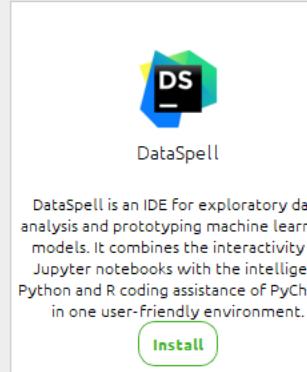
A Full Python IDE directly from the browser

Documentation

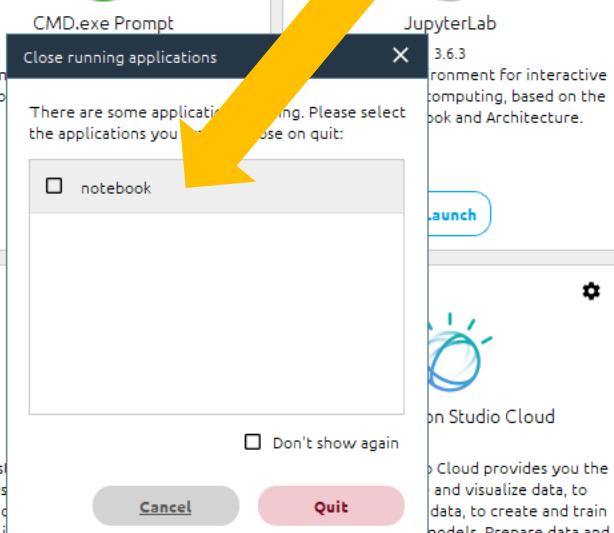
Anaconda Blog



All applications on base (root) Channels

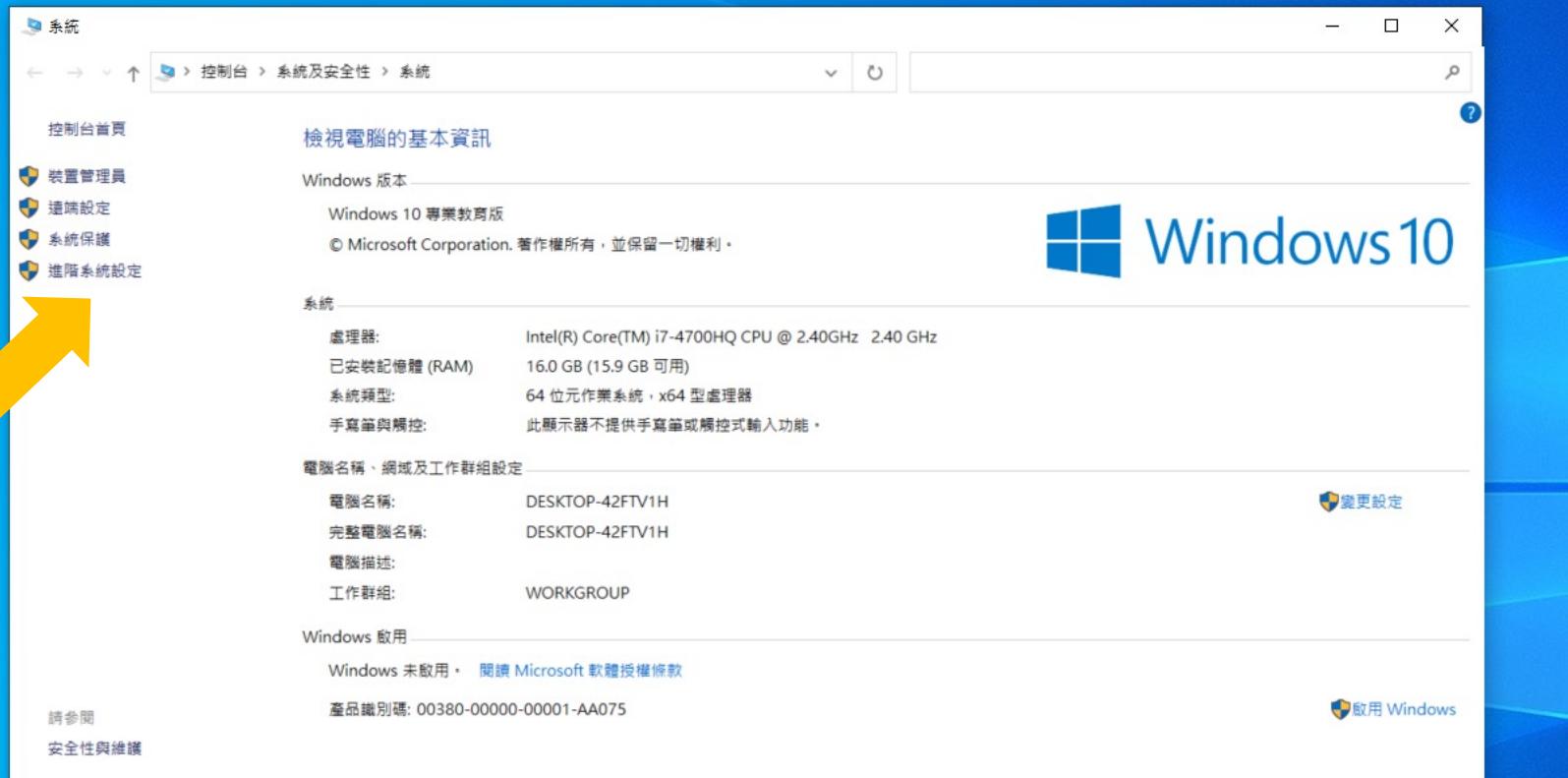


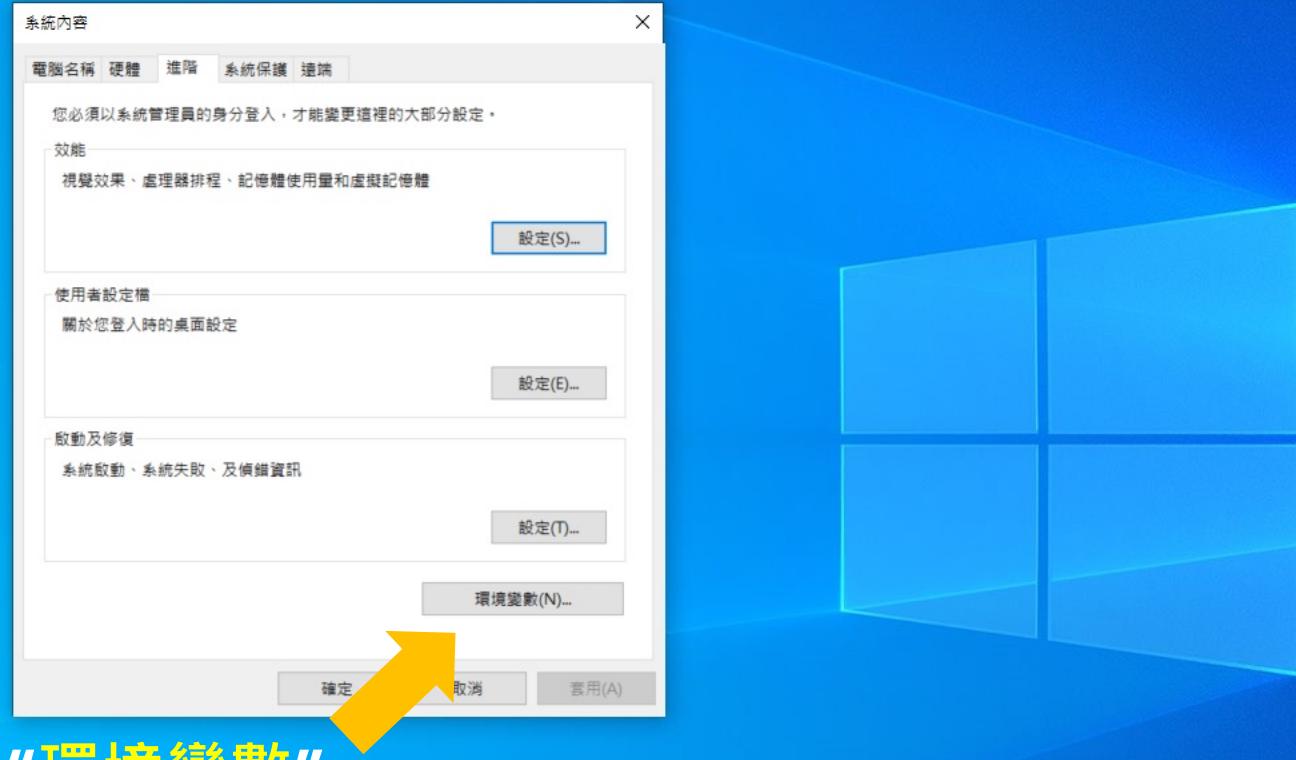
Close Jupyter



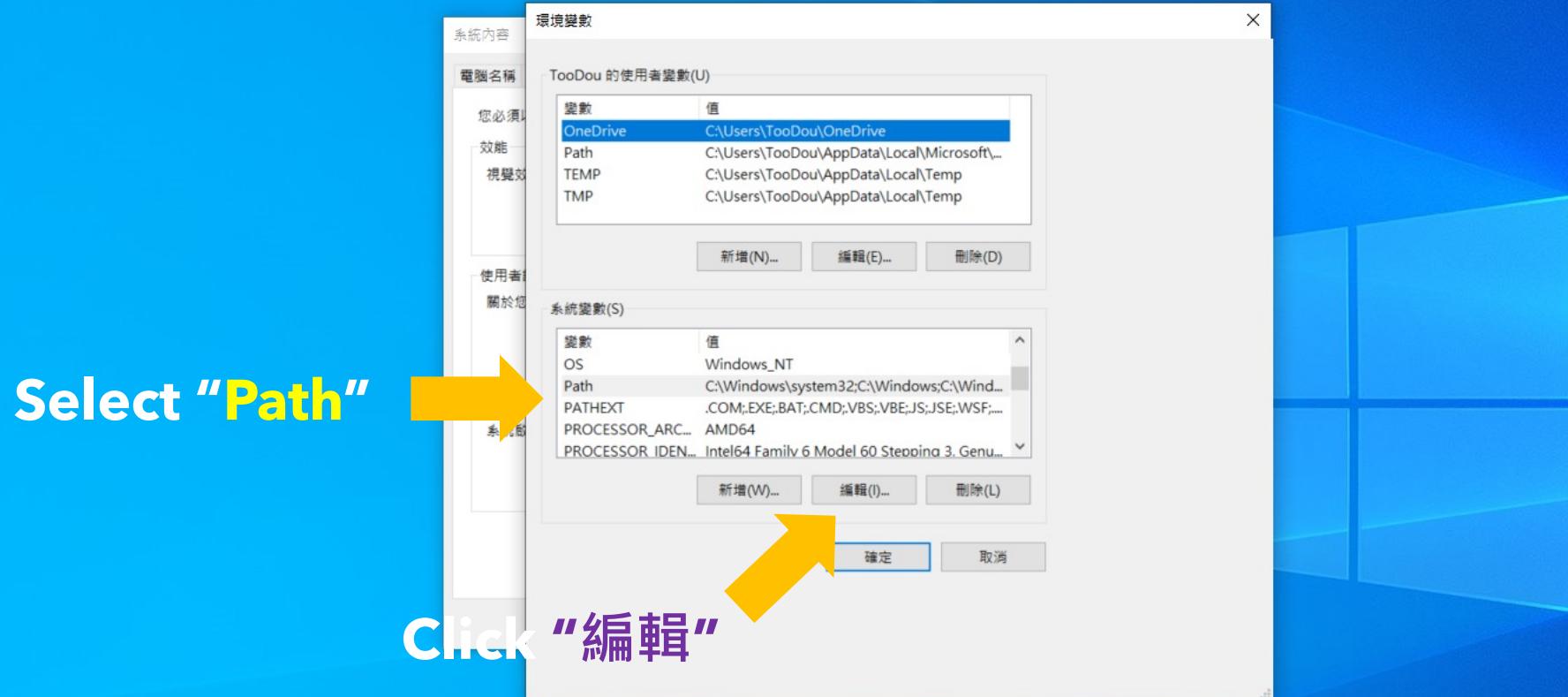
**The duration of opening anaconda for jupyter notebook is quite long.
Here, we may open jupyter in terminal ... but for windows users ...**

**Set System
Env**

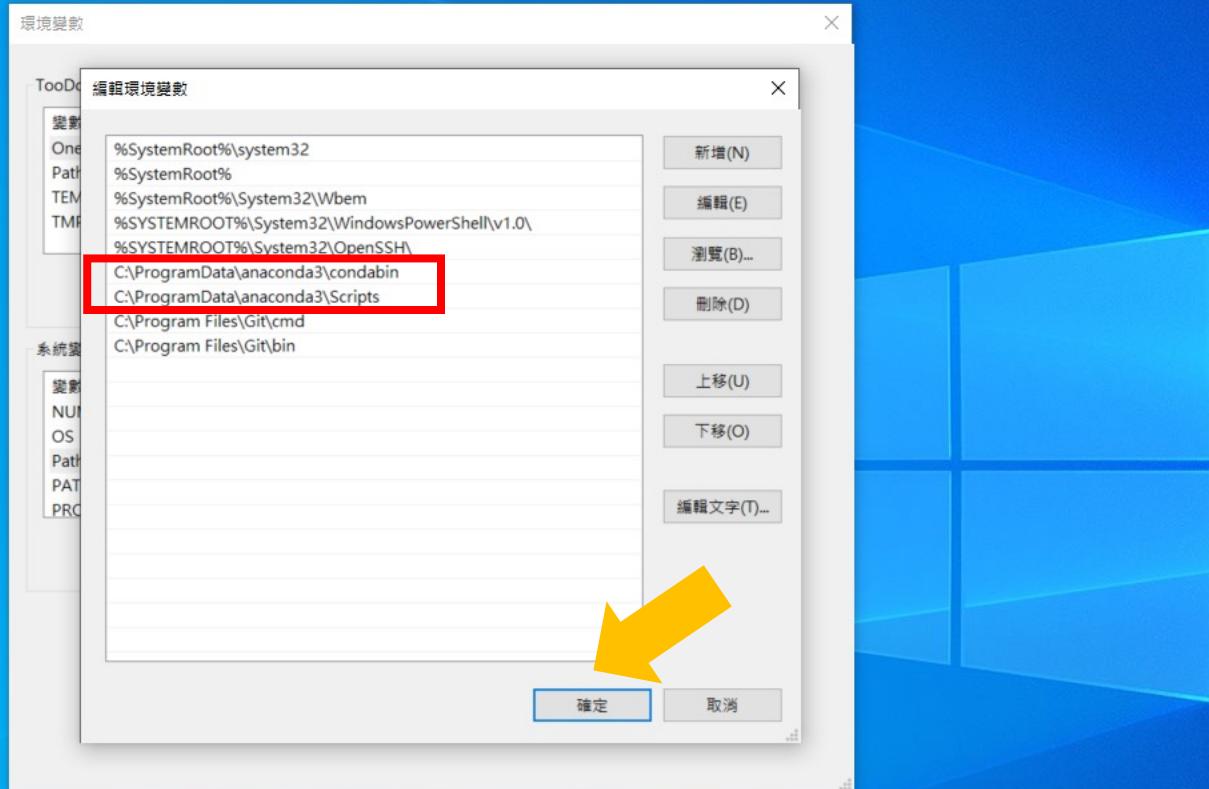


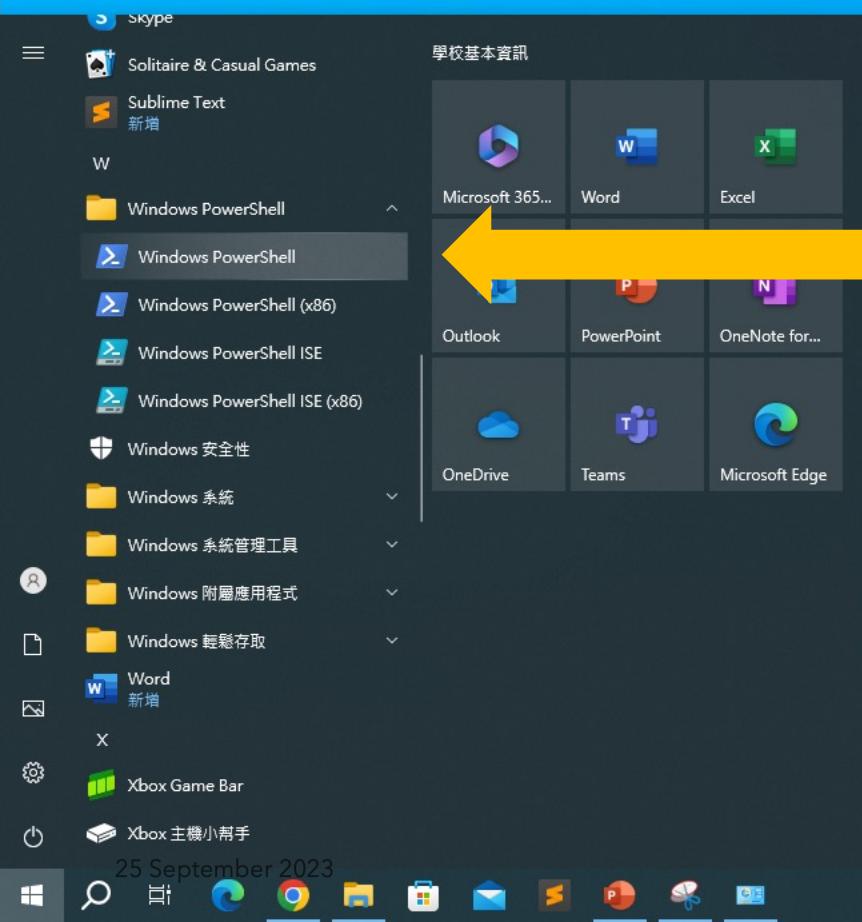


Click "環境變數"



Set “環境變數” (environmental variables)

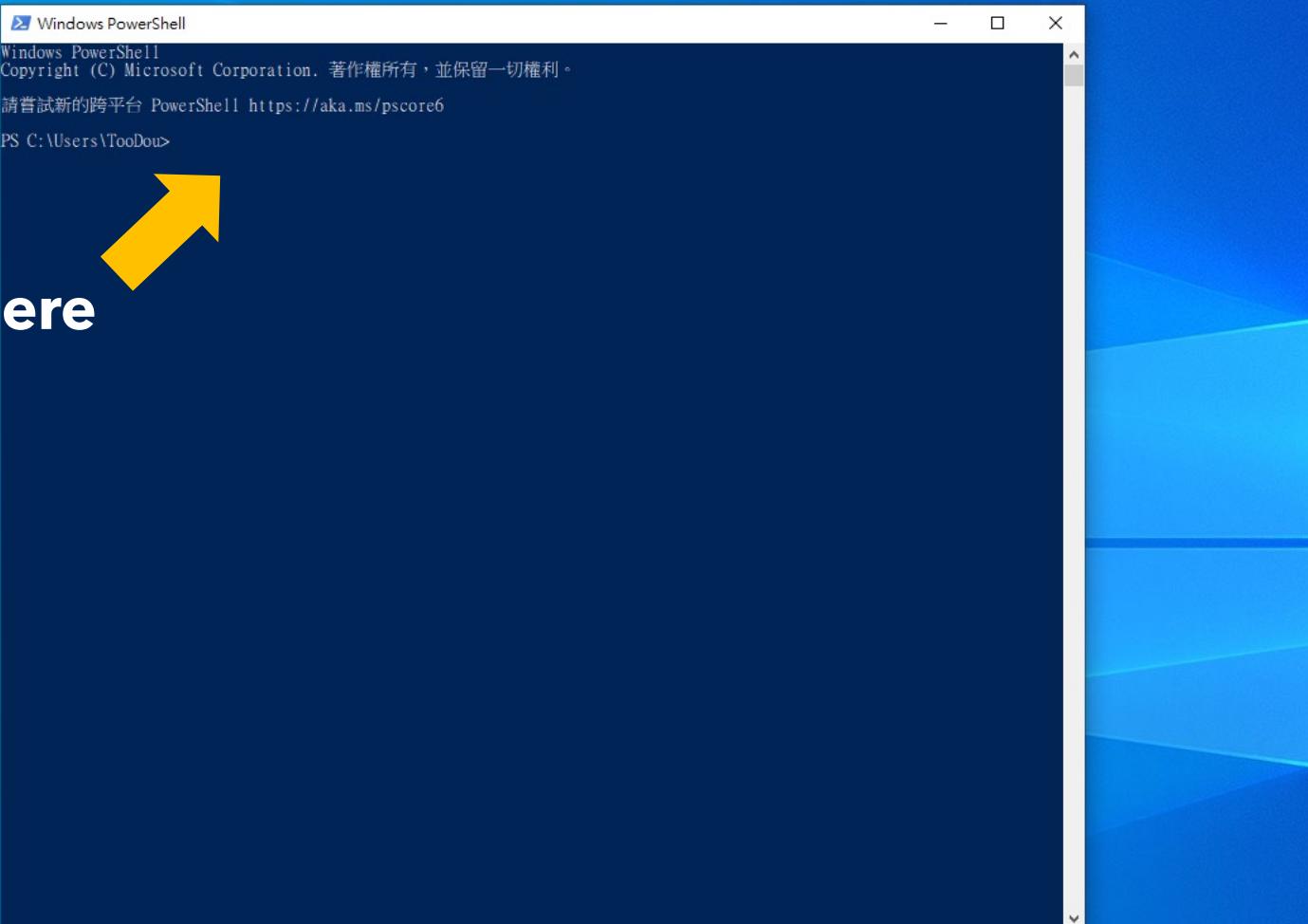




Open “Windows PowerShell”



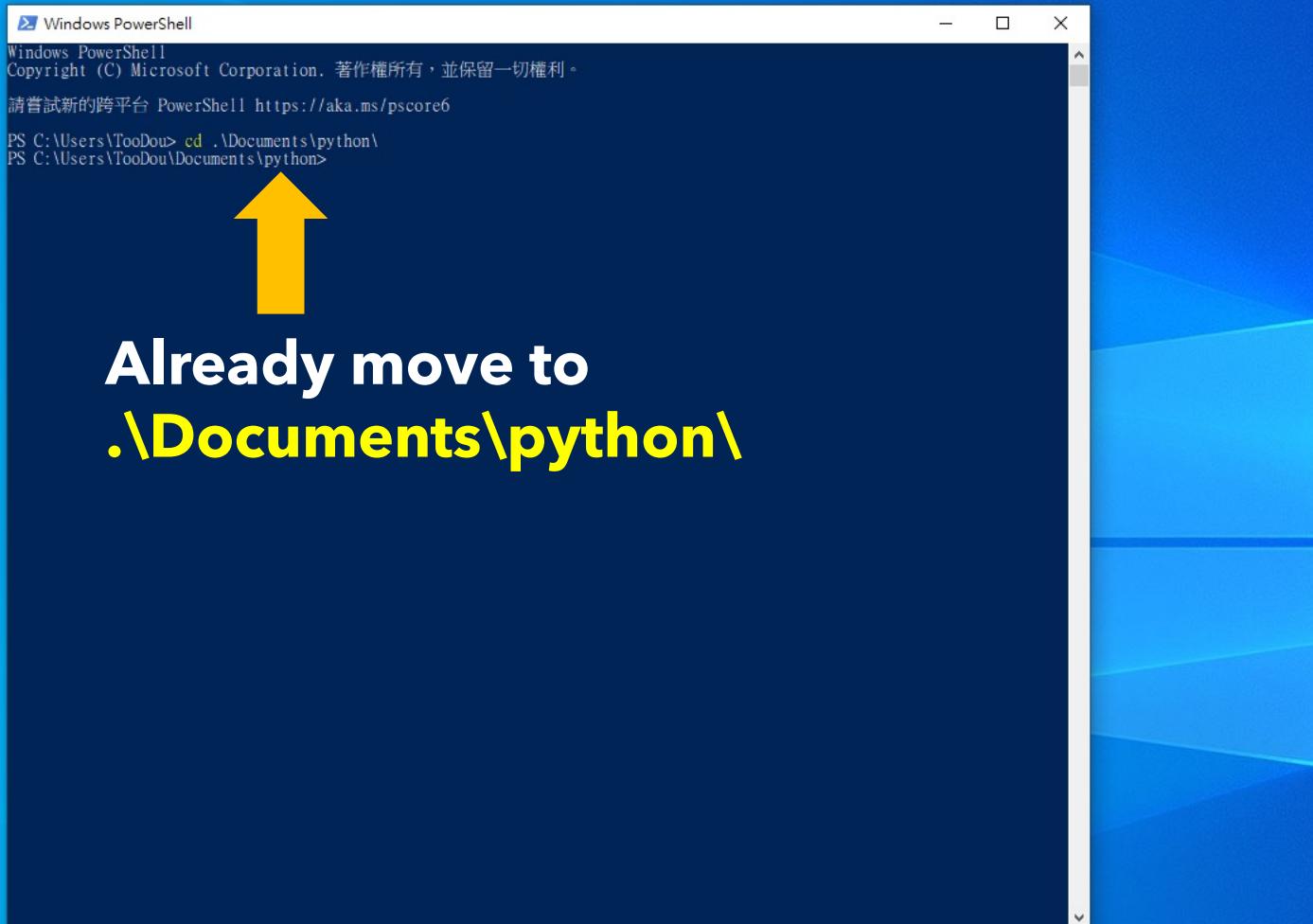
Type here





```
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平臺 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> cd .\Documents\python\
```

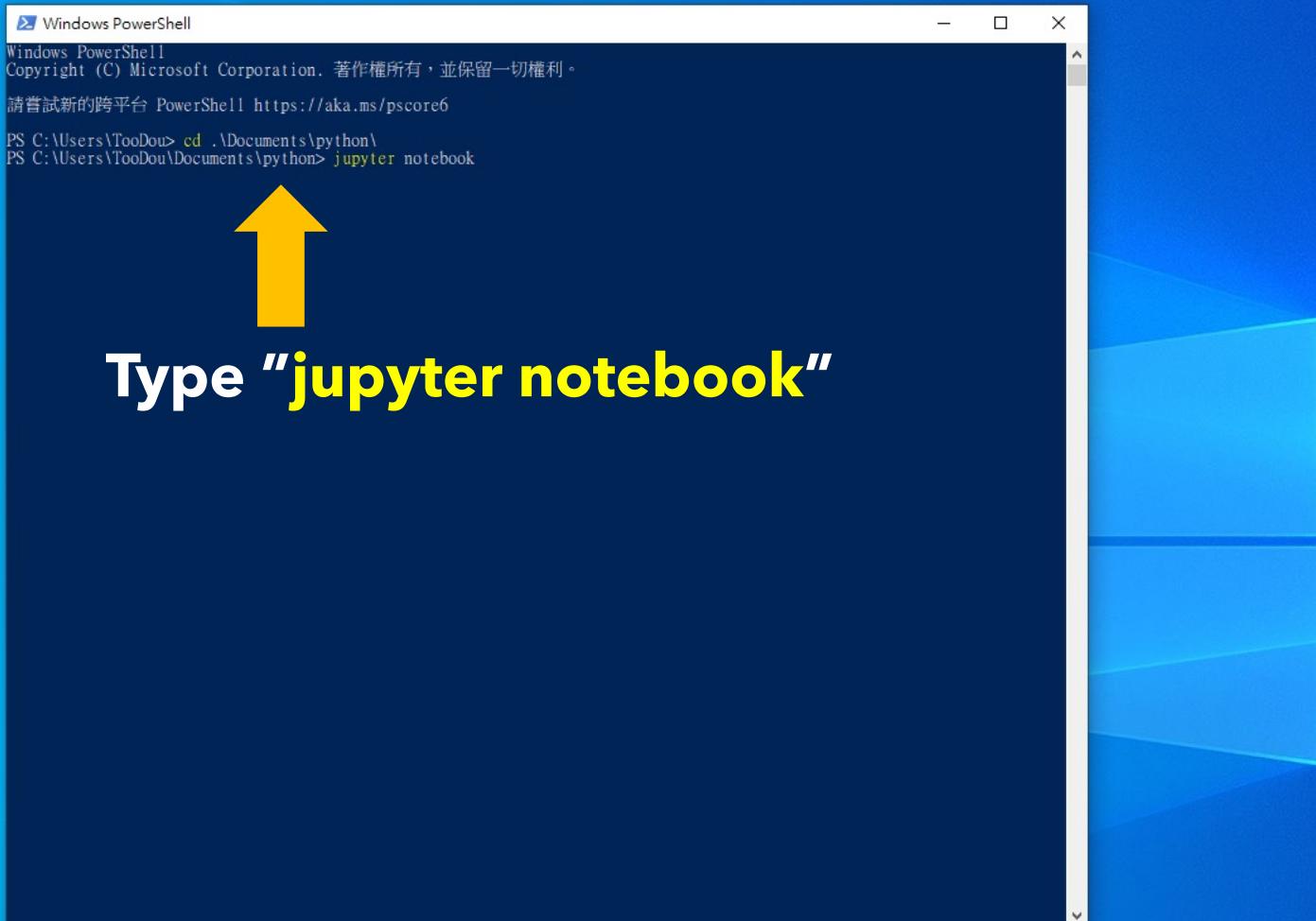
cd .\Documents\python\

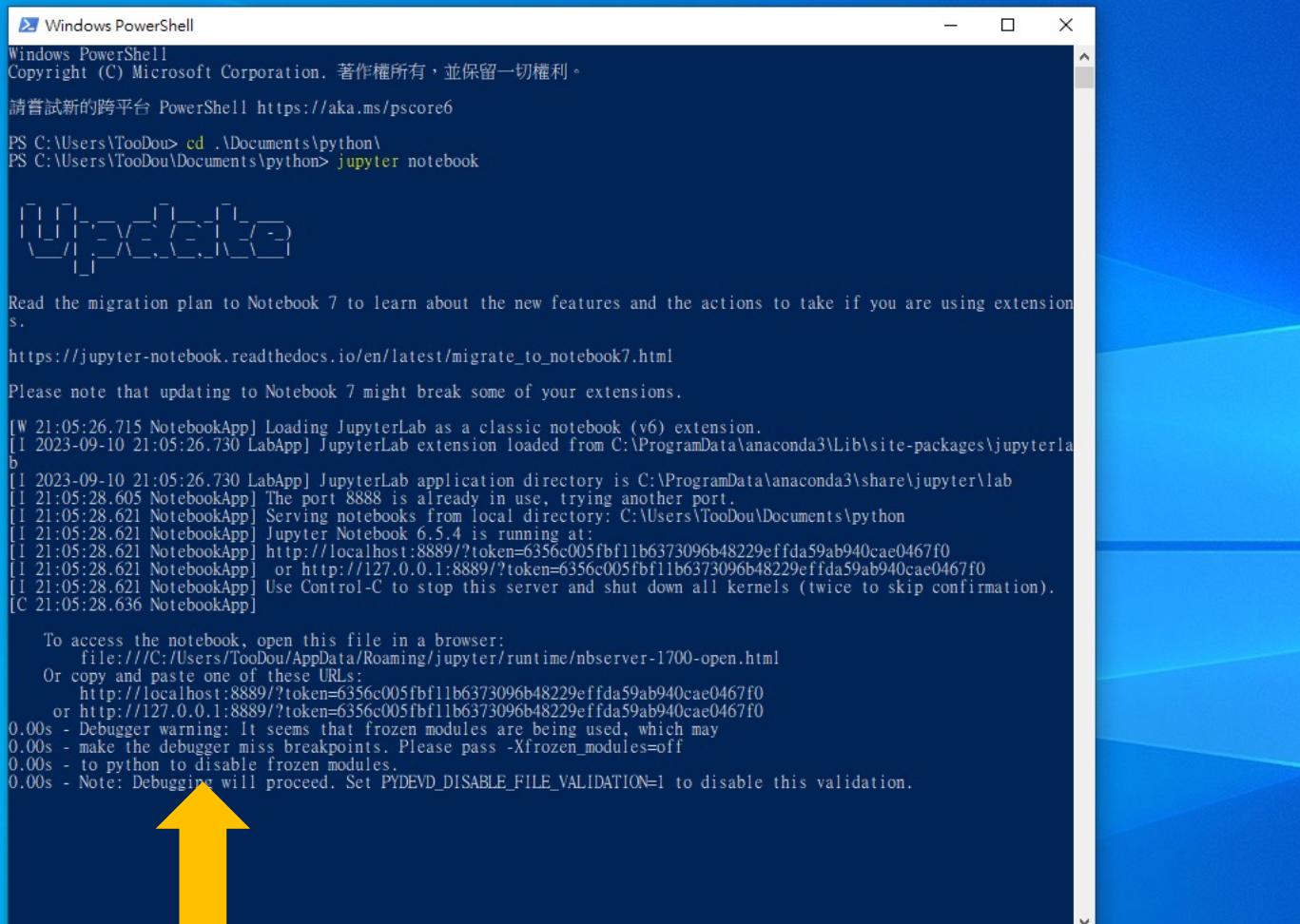


A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following text:
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell <https://aka.ms/pscore6>
PS C:\Users\TooDou> cd ..\Documents\python\
PS C:\Users\TooDou\Documents\python>

A large yellow arrow points upwards from the text "Already move to" towards the command "cd ..\Documents\python\".

**Already move to
.\\Documents\\python**





```
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平臺 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> cd .\Documents\python\
PS C:\Users\TooDou\Documents\python> jupyter notebook

[           ]|-[ -] |-[ -] |-[ -]
[ [ ] / \ ] |-[ -] ,-[ -],-[ -]
[ _ ] |-[ -]

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.

https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

[W 21:05:26.715 NotebookApp] Loading JupyterLab as a classic notebook (v6) extension.
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab extension loaded from C:\ProgramData\anaconda3\Lib\site-packages\jupyterlab
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab application directory is C:\ProgramData\anaconda3\share\jupyter\lab
[! 21:05:28.605 NotebookApp] The port 8888 is already in use, trying another port.
[! 21:05:28.621 NotebookApp] Serving notebooks from local directory: C:\Users\TooDou\Documents\python
[! 21:05:28.621 NotebookApp] Jupyter Notebook 6.5.4 is running at:
[! 21:05:28.621 NotebookApp] http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[! 21:05:28.621 NotebookApp] or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[! 21:05:28.621 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 21:05:28.636 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/TooDou/AppData/Roaming/jupyter/runtime/nbserver-1700-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
```

Successfully Open

選取 Windows PowerShell

Windows PowerShell
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請嘗試新的跨平台 PowerShell <https://aka.ms/pscore6>

```
PS C:\Users\TooDou> cd .\Documents\python
PS C:\Users\TooDou\Documents\python> jupyter notebook
```

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.

https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

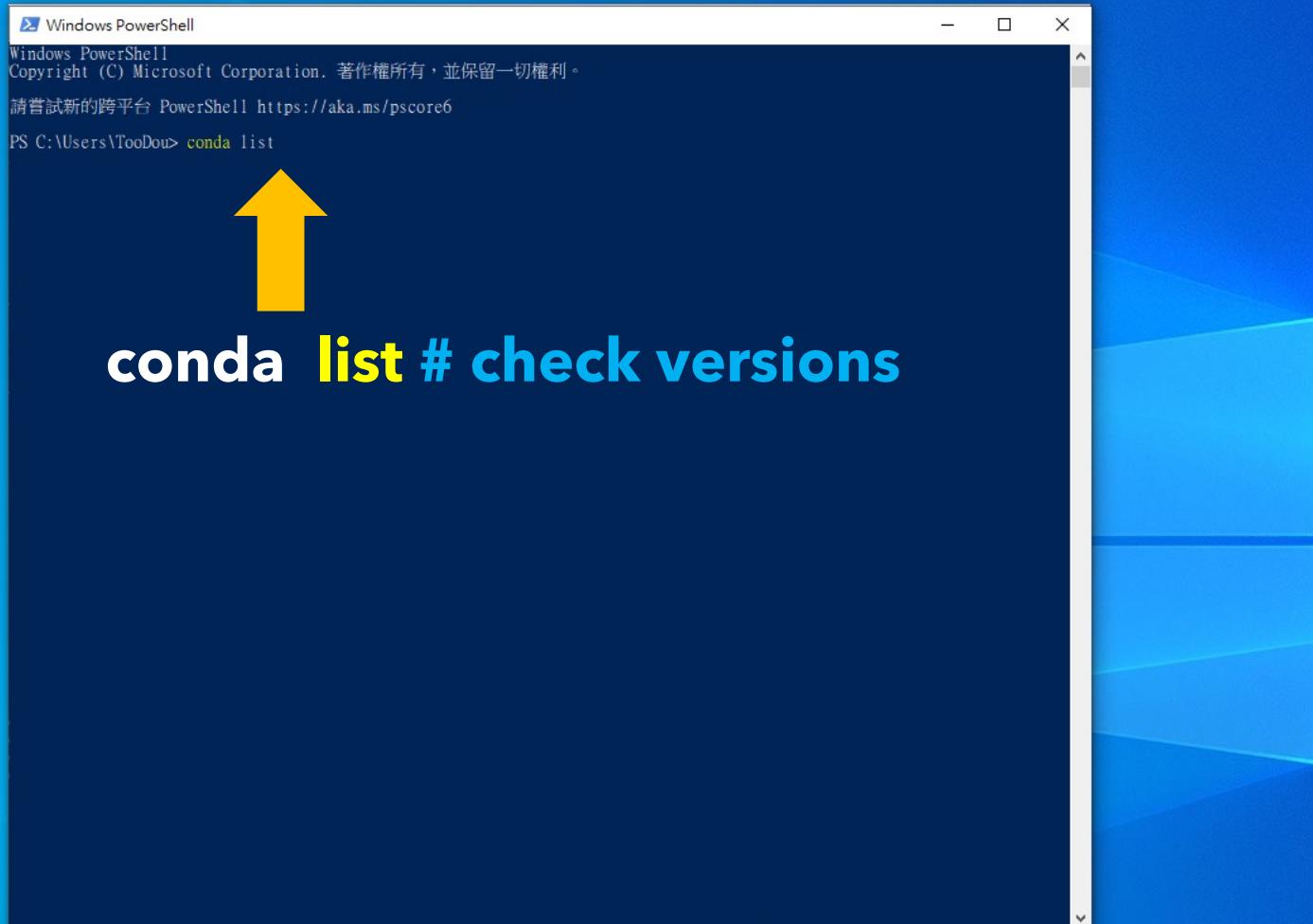
Please note that updating to Notebook 7 might break some of your extensions.

```
[W 21:05:26.715 NotebookApp] Loading JupyterLab as a classic notebook (v6) extension.
[1 2023-09-10 21:05:26.730 LabApp] JupyterLab extension loaded from C:\ProgramData\anaconda3\Lib\site-packages\jupyterlab
[1 2023-09-10 21:05:26.730 LabApp] JupyterLab application directory is C:\ProgramData\anaconda3\share\jupyter\lab
[1 21:05:28.605 NotebookApp] The port 8888 is already in use, trying another port.
[1 21:05:28.621 NotebookApp] Serving notebooks from local directory: C:\Users\TooDou\Documents\python
[1 21:05:28.621 NotebookApp] Jupyter Notebook 6.5.4 is running at:
[1 21:05:28.621 NotebookApp] http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[1 21:05:28.621 NotebookApp] or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[1 21:05:28.621 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 21:05:28.636 NotebookApp]
```

To access the notebook, open this file in a browser:
`file:///C:/Users/TooDou/AppData/Roaming/jupyter/runtime/nbserver-1700-open.html`
Or copy and paste one of these URLs:
`http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0`
`or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0`

0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass `-Xfrozen_modules=off`
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set `PYDEV_DISABLE_FILE_VALIDATION=1` to disable this validation.

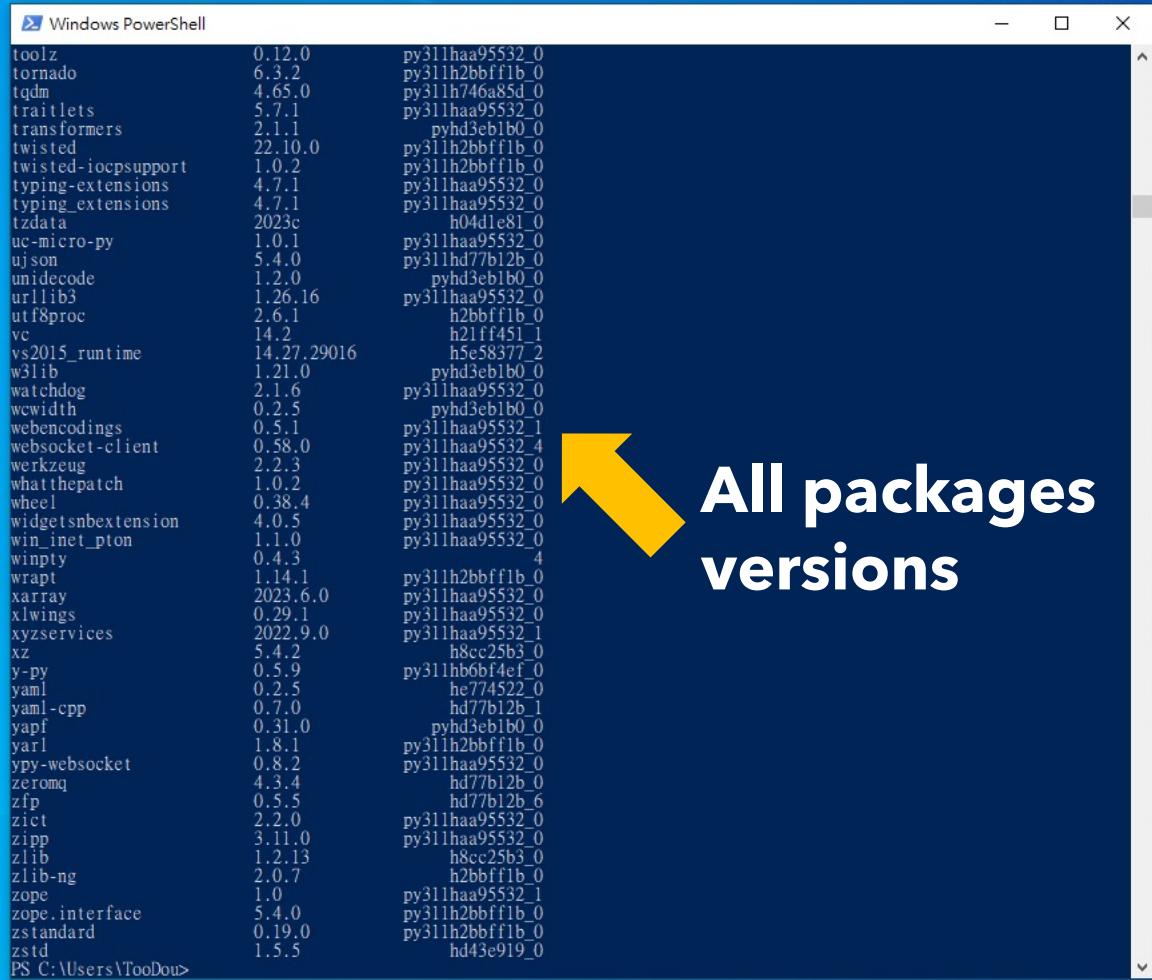
```
[1 21:17:33.645 NotebookApp] Interrupted...
[1 21:17:33.645 NotebookApp] Shutting down 0 kernels
[1 21:17:33.645 NotebookApp] Shutting down 0 terminals
PS C:\Users\TooDou\Documents\python>
```



A Windows PowerShell window titled "Windows PowerShell" is displayed on a blue desktop background. The window shows the command "PS C:\Users\TooDou> conda list" being typed. A large yellow arrow points upwards from the text "conda list # check versions" below the window towards the command in the window. The desktop background features a blurred image of a person's face.

PS C:\Users\TooDou> conda list

conda list # check versions



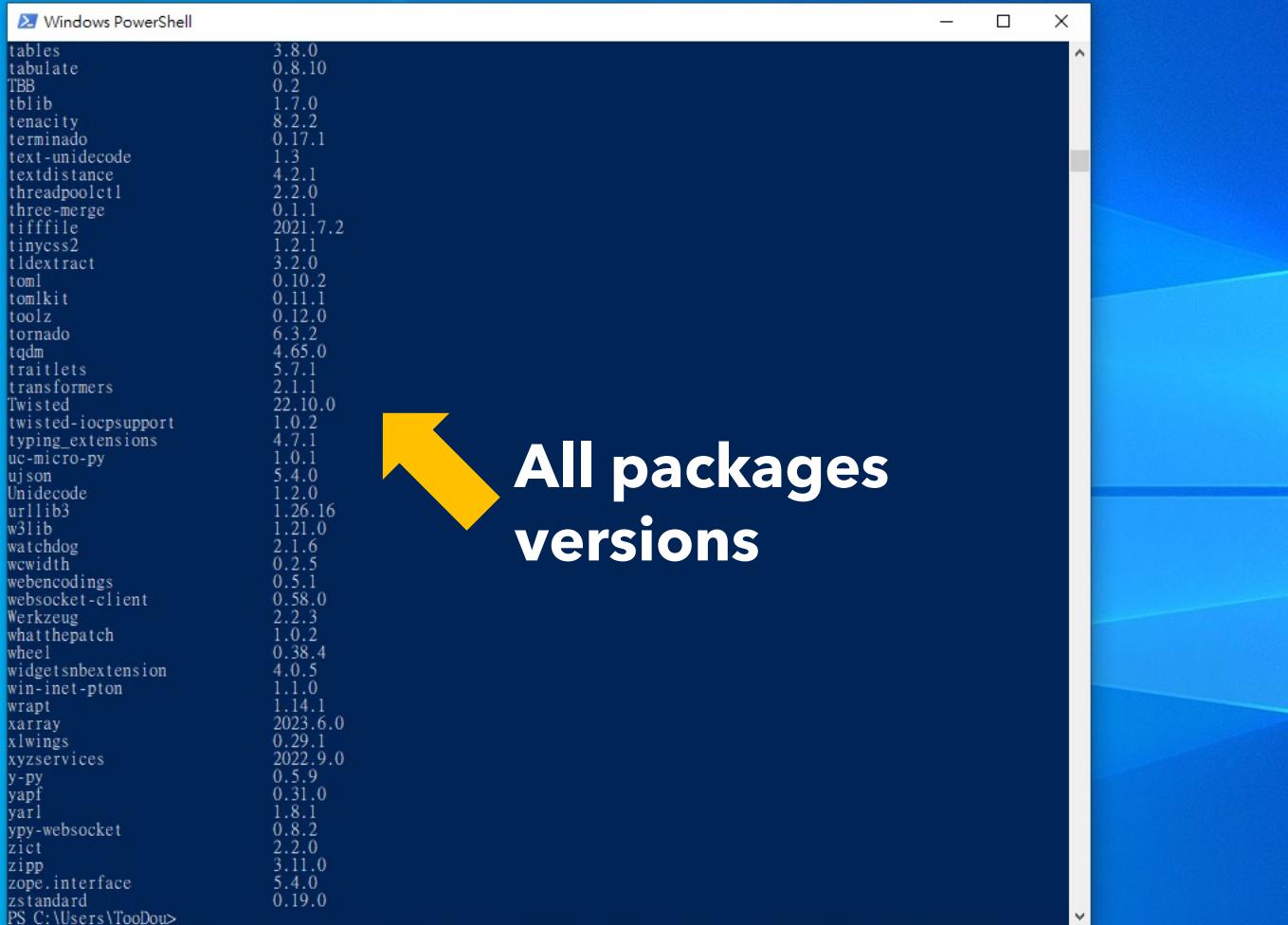
```
Windows PowerShell
toolz          0.12.0      py311haha95532_0
tornado        6.3.2       py311h2bbff1b_0
tqdm          4.65.0      py311h746a85d_0
traitlets      5.7.1       py311haha95532_0
transformers    2.1.1      pyhd3eb1b0_0
twisted         22.10.0     py311h2bbff1b_0
twisted-iocpsupport 1.0.2       py311h2bbff1b_0
typing-extensions 4.7.1      py311haha95532_0
typing_extensions 4.7.1      py311haha95532_0
tzdata         2023c      h04d1e81_0
uc-micro-py    1.0.1       py311haha95532_0
ujson          5.4.0       py311hd77b12b_0
unidecode       1.2.0      pyhd3eb1b0_0
urllib3        1.26.16     py311haha95532_0
utf8proc        2.6.1      h2bbff1b_0
vc              14.2       h21ff451_1
vs2015_runtime 14.27.29016   h5e58377_2
w3lib           1.21.0      pyhd3eb1b0_0
watchdog        2.1.6       py311haha95532_0
wcwidth         0.2.5      pyhd3eb1b0_0
webencodings   0.5.1       py311haha95532_1
websocket-client 0.58.0     py311haha95532_4
werkzeug        2.2.3      py311haha95532_0
whatsthepatch   1.0.2       py311haha95532_0
wheel            0.38.4     py311haha95532_0
widgetsnbextension 4.0.5     py311haha95532_0
win_inet_pton   1.1.0       py311haha95532_0
winpty           0.4.3      h4
wrapt            1.14.1     py311h2bbff1b_0
xarray           2023.6.0     py311haha95532_0
xlwings          0.29.1     py311haha95532_0
xyzservices      2022.9.0     py311haha95532_1
xz              5.4.2       h8cc25b3_0
y-py              0.5.9      py311hb6bf4ef_0
yaml              0.2.5      he774522_0
yaml-cpp          0.7.0      hd77b12b_1
yapf              0.31.0     pyhd3eb1b0_0
yarl              1.8.1       py311h2bbff1b_0
ypy-websocket    0.8.2       py311haha95532_0
zeromq           4.3.4      hd77b12b_0
zfp              0.5.5       hd77b12b_6
zict             2.2.0       py311haha95532_0
zipp             3.11.0      py311haha95532_0
zlib             1.2.13      h8cc25b3_0
zlib-ng           2.0.7       h2bbff1b_0
zope              1.0        py311haha95532_1
zope.interface   5.4.0       py311h2bbff1b_0
zstandard         0.19.0     py311h2bbff1b_0
zstd              1.5.5      hd43e919_0
PS C:\Users\TooDou>
```

All packages
versions



```
Windows PowerShell
PS C:\Users\TooDou> pip list
```

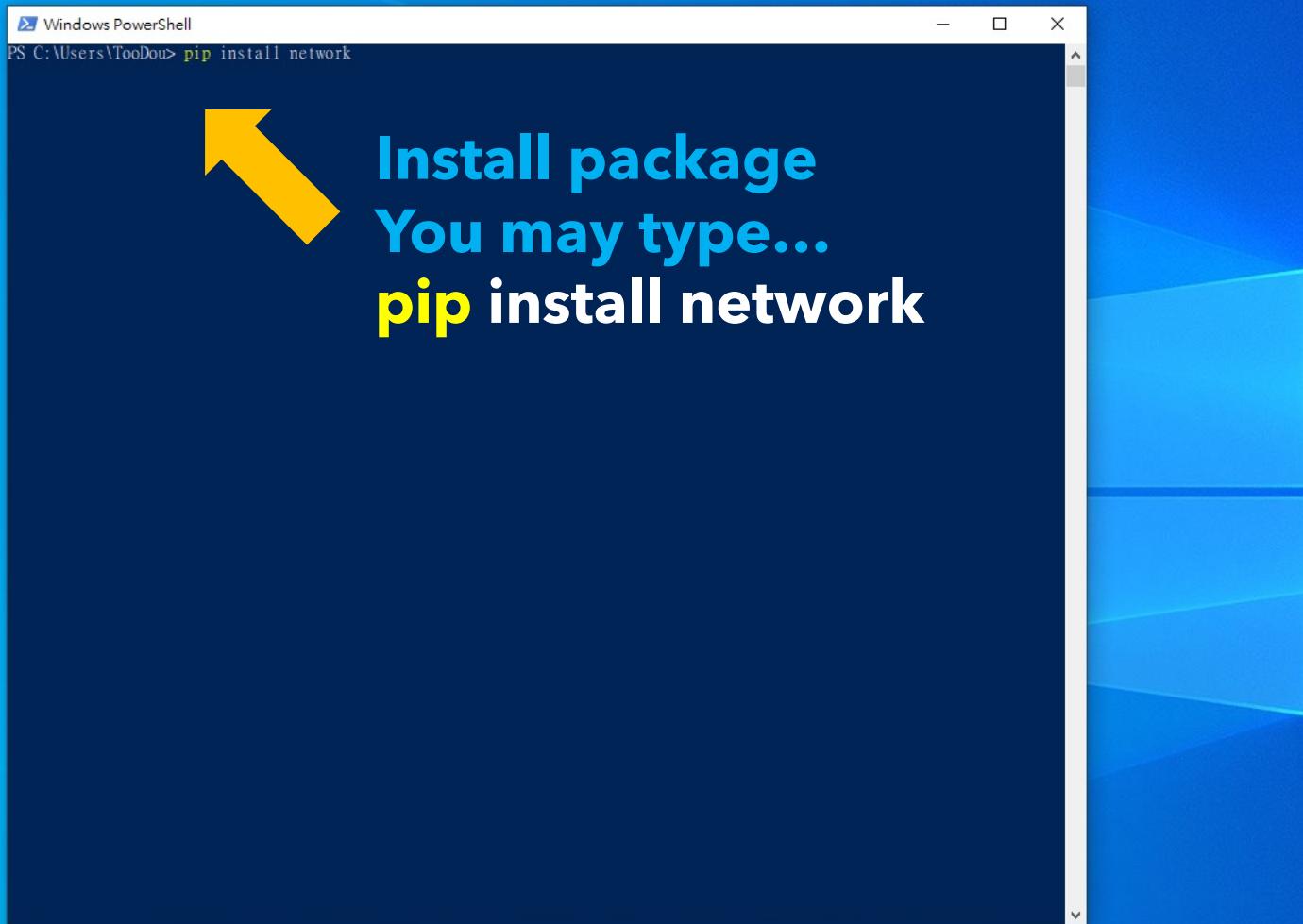
pip list # check versions

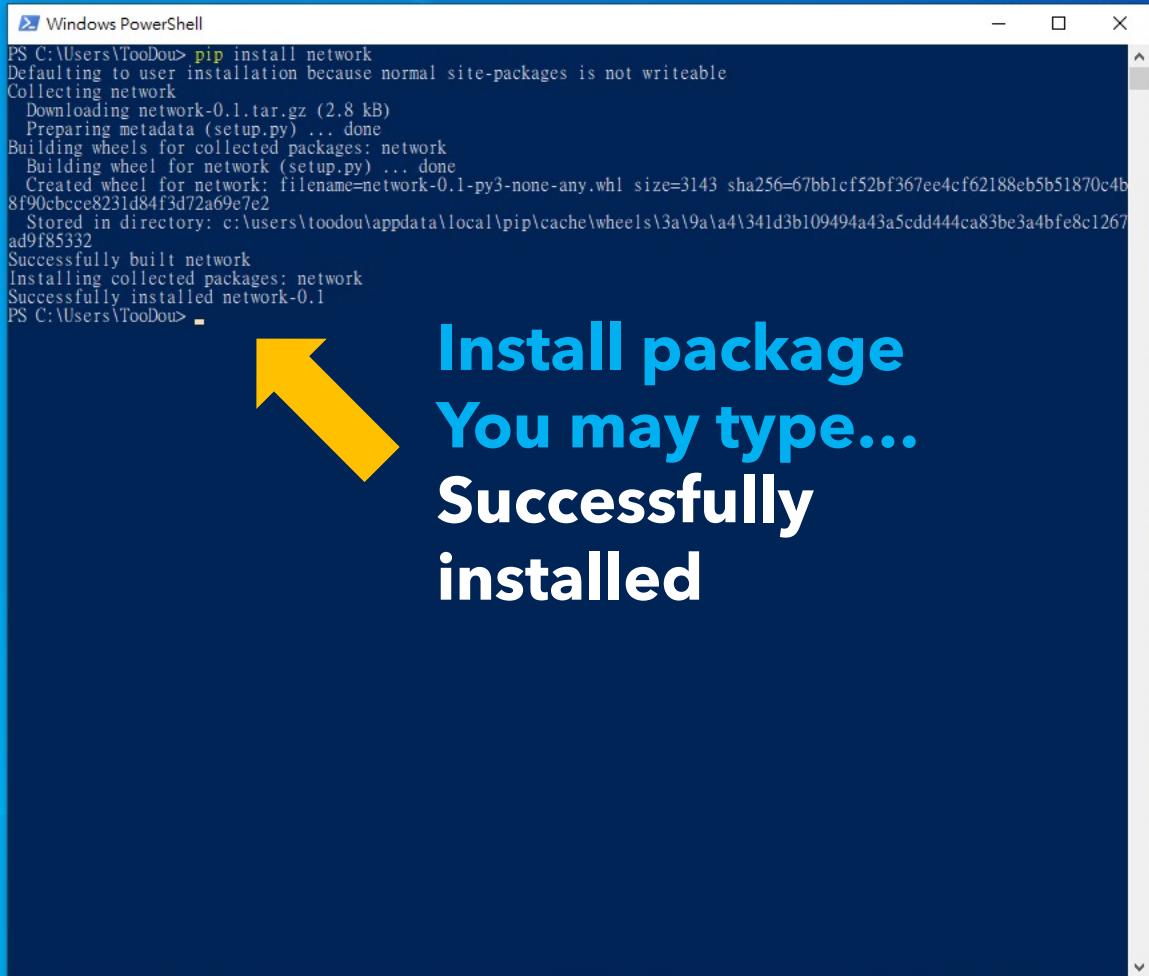


A Windows PowerShell window titled "Windows PowerShell" displays a list of package names and their versions. A large yellow arrow points from the left towards the title "All packages versions".

Package	Version
tables	3.8.0
tabulate	0.8.10
TBB	0.2
tblib	1.7.0
tenacity	8.2.2
terminado	0.17.1
text-unidecode	1.3
textdistance	4.2.1
threadpoolctl	2.2.0
three-merge	0.1.1
tifffile	2021.7.2
tinyss2	1.2.1
tldeextract	3.2.0
toml	0.10.2
tomlkit	0.11.1
toolz	0.12.0
tornado	6.3.2
tqdm	4.65.0
traitlets	5.7.1
transformers	2.1.1
Twisted	22.10.0
twisted-iocpsupport	1.0.2
typing_extensions	4.7.1
uc-micro-py	1.0.1
ujson	5.4.0
Unidecode	1.2.0
urllib3	1.26.16
w3lib	1.21.0
watchdog	2.1.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	0.58.0
Werkzeug	2.2.3
whatthepatch	1.0.2
wheel	0.38.4
widgetsnbextension	4.0.5
win-inet-pton	1.1.0
wrapt	1.14.1
xarray	2023.6.0
xlwings	0.29.1
xyzservices	2022.9.0
y-py	0.5.9
yapf	0.31.0
yaml	1.8.1
ypy-websocket	0.8.2
zict	2.2.0
zipp	3.11.0
zope.interface	5.4.0
zstandard	0.19.0

PS C:\Users\TTooDou>

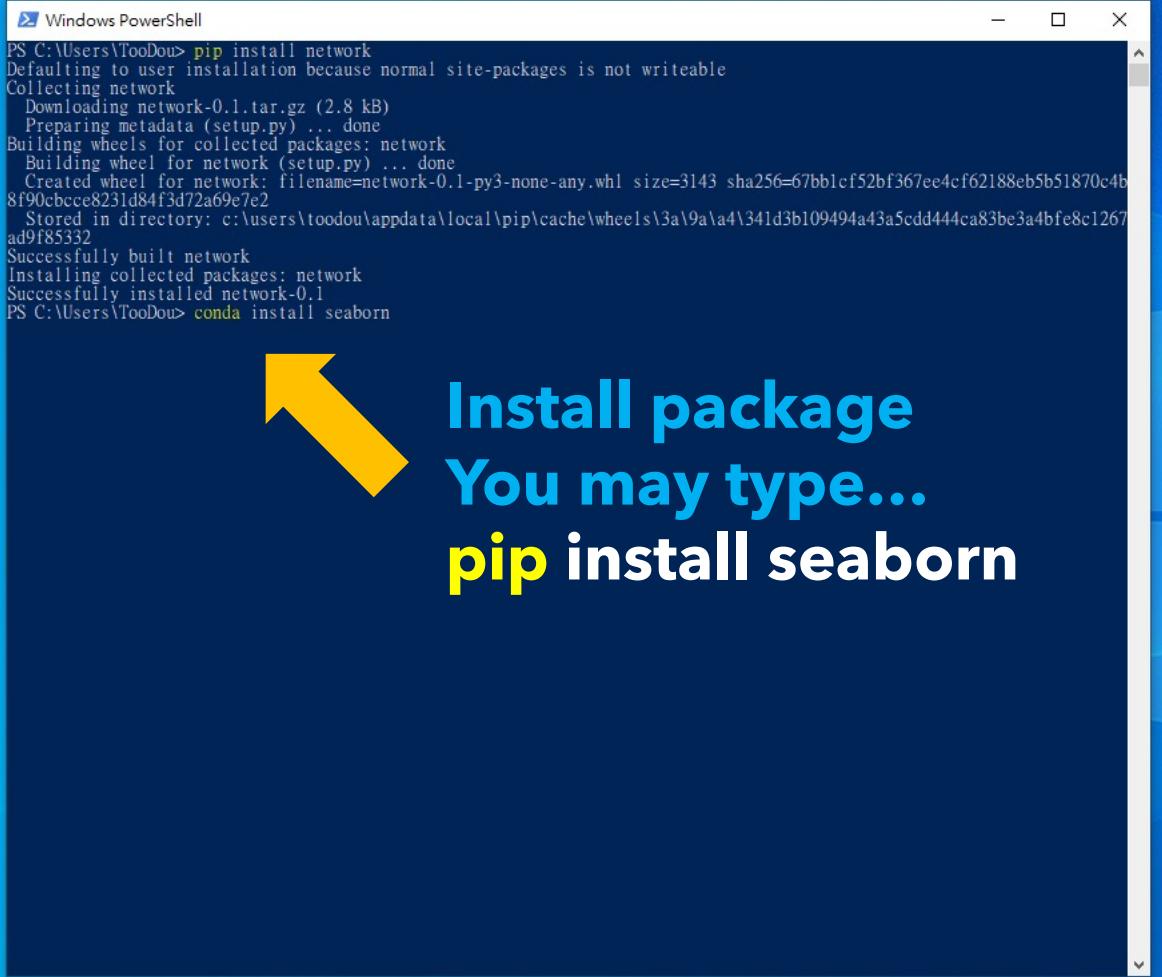




```
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
  Downloading network-0.1.tar.gz (2.8 kB)
    Preparing metadata (setup.py) ... done
  Building wheels for collected packages: network
    Building wheel for network (setup.py) ... done
      Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188cb5b51870c4b8f90cbcce8231d84f3d72a69e7e2
        Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4a\341d3b109494a43a5cd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou>
```

Install package
You may type...
Successfully
installed

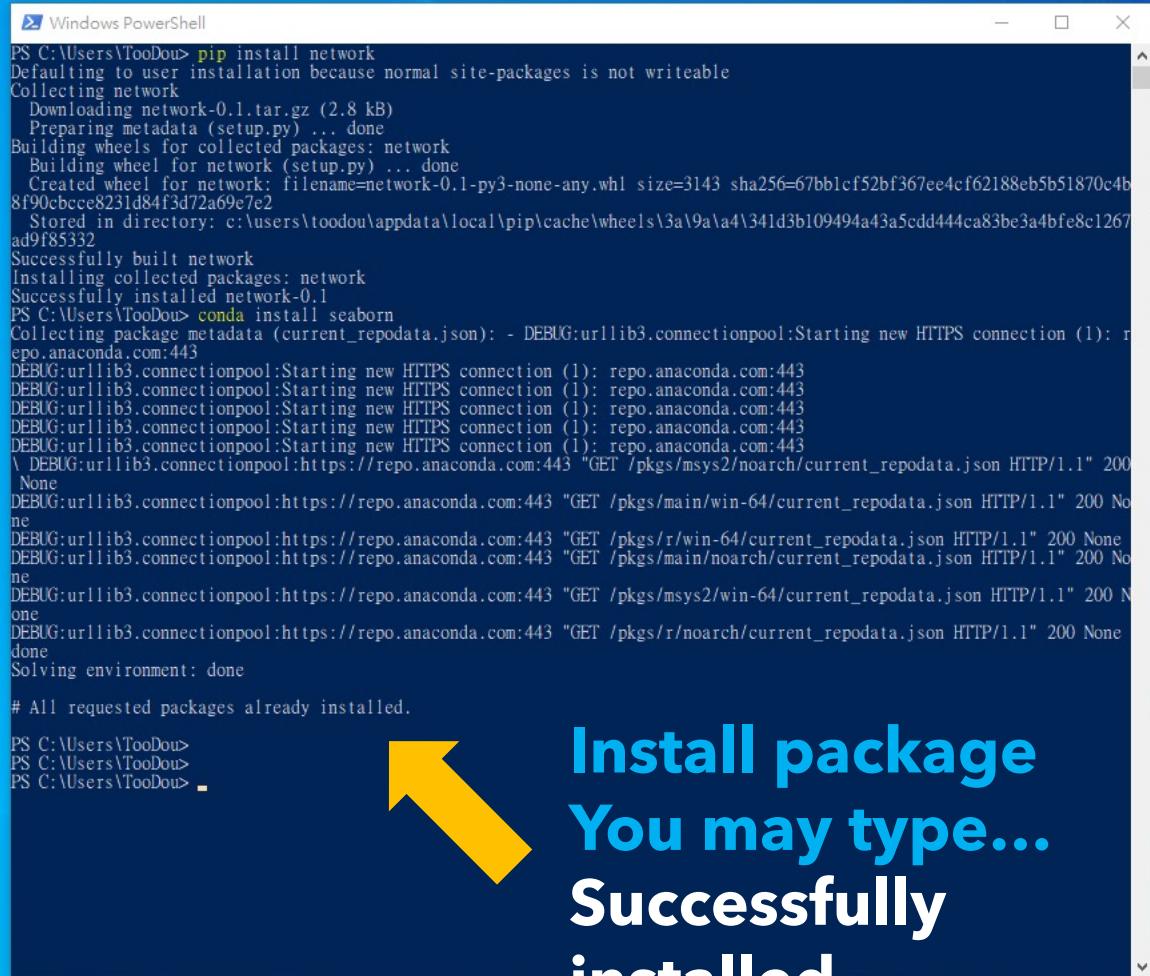
A yellow arrow points from the text "You may type..." towards the command prompt in the PowerShell window.



```
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
  Downloading network-0.1.tar.gz (2.8 kB)
    Preparing metadata (setup.py) ... done
  Building wheels for collected packages: network
    Building wheel for network (setup.py) ... done
      Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188eb5b51870c4b8190cbcce8231d8413d72a69e1e2
      Stored in directory: c:/users/toodou/appdata/local/pip/cache/wheels\3a\9a\43\341d3b109494a43a5cdd44ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou> conda install seaborn
```

Install package
You may type...
pip install seaborn

A large yellow arrow points from the text "Install package You may type..." towards the Windows PowerShell window.



```
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
  Downloading network-0.1.tar.gz (2.8 kB)
    Preparing metadata (setup.py) ... done
Building wheels for collected packages: network
  Building wheel for network (setup.py) ... done
    Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188cb5b51870c4b8190cbcce8231d84f3d72a69e7e2
      Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4a\341d3b109494a43a5cd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou> conda install seaborn
Collecting package metadata (current_repodata.json): - DEBUG:urllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/noarch/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/main/win-64/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/r/win-64/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/main/noarch/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/win-64/current_repodata.json HTTP/1.1" 200 None
DEBUG:urllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/r/noarch/current_repodata.json HTTP/1.1" 200 None
done
Solving environment: done

# All requested packages already installed.

PS C:\Users\TooDou>
PS C:\Users\TooDou>
PS C:\Users\TooDou>
```

Install package
You may type...
Successfully
installed

[About](#)[Documentation](#)[Downloads](#)[GUI Clients](#)
[Logos](#)[Community](#)

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads



Older releases are available and the [Git source repository](#) is on GitHub.



GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).

[About this site](#)

Patches, suggestions, and comments are welcome.

Git is a member of Software Freedom Conservancy

When you need something from GitHub, and you will need this ...

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[Logos](#)[Community](#)

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest (2.42.0) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **11 days ago**, on 2023-08-30.

Other Git for Windows downloads

[Standalone Installer](#)[32-bit Git for Windows Setup.](#)[64-bit Git for Windows Setup.](#)[Portable \("thumbdrive edition"\)](#)[32-bit Git for Windows Portable.](#)[64-bit Git for Windows Portable.](#)

Using winget tool

Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.42.0. If you want the newer version, you can build it from [the source code](#).

Now What?

Now that you have downloaded Git, it's time to start using it.



Read the Book

Dive into the Pro Git book and learn at your own pace.



Download a GUI

Several free and commercial GUI tools are available for the Windows platform.

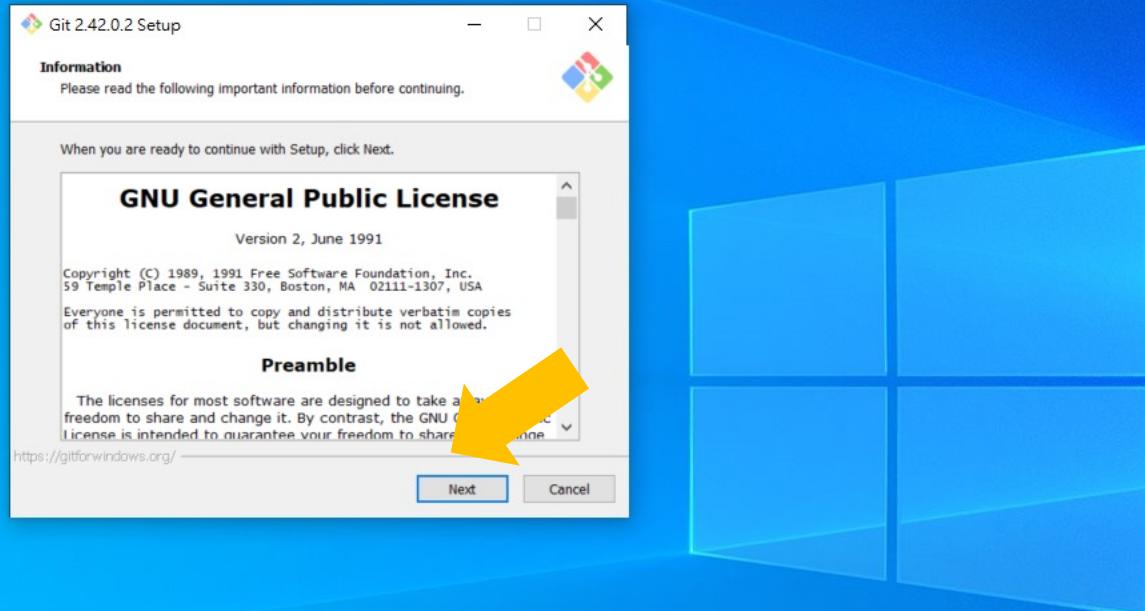


Get Involved

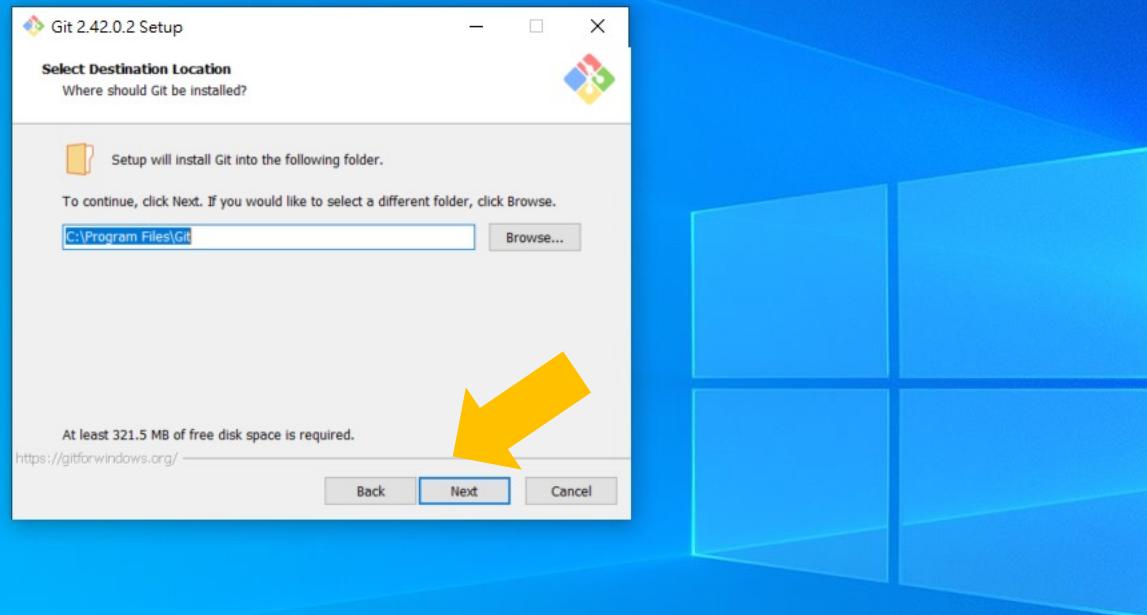
A knowledgeable Git community is available to answer your questions.

**Download here
If your computer is
windows ...**

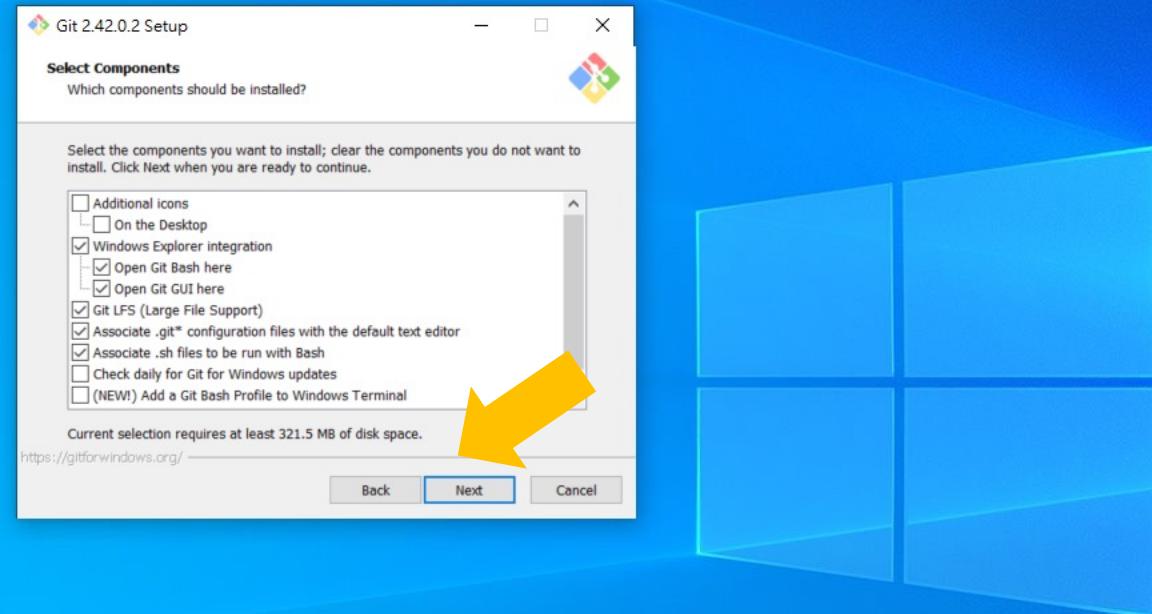
Click "Next"



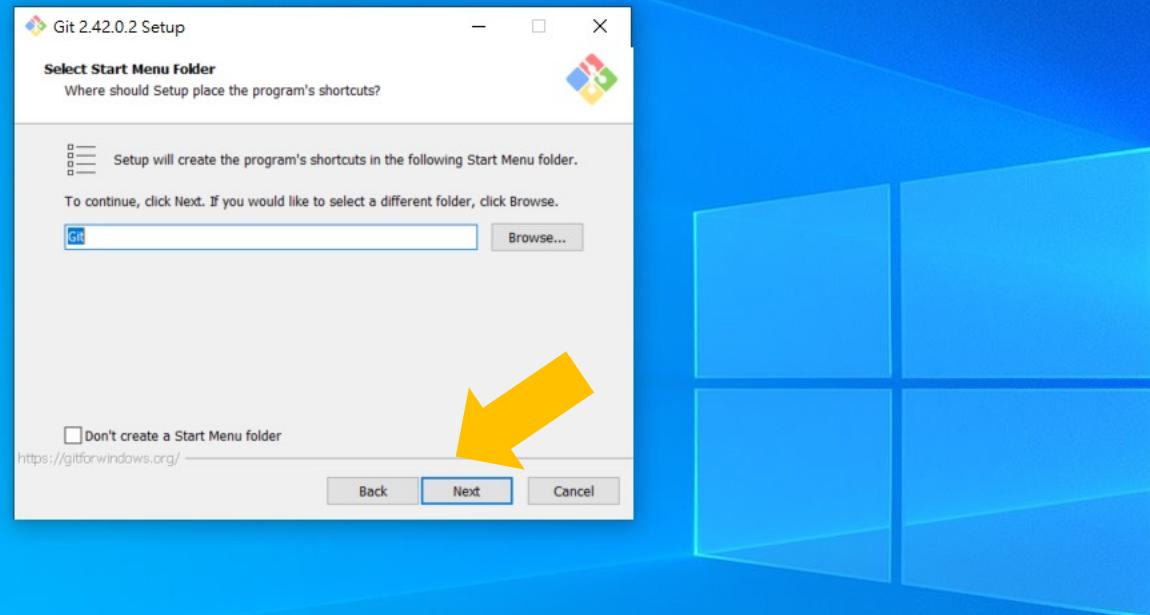
Click "Next"



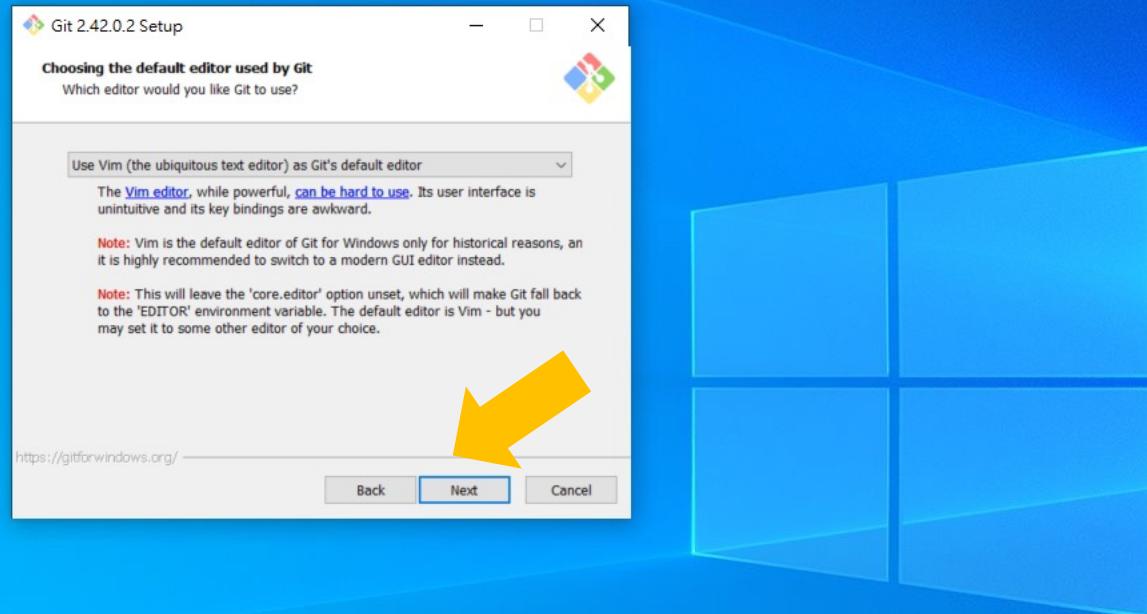
Click "Next"



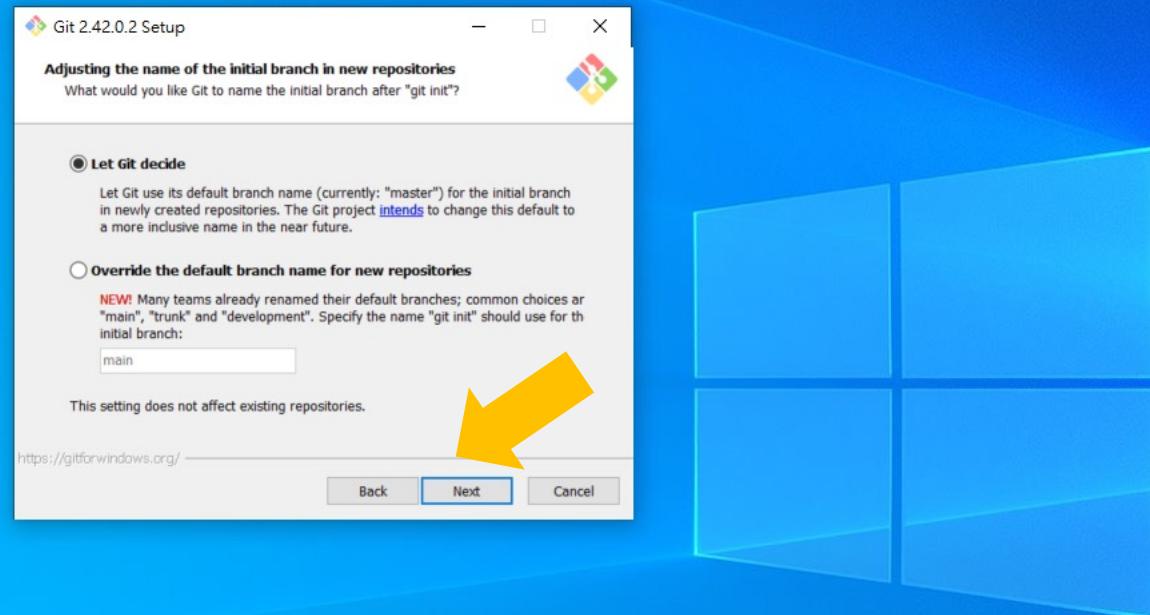
Click “Next”



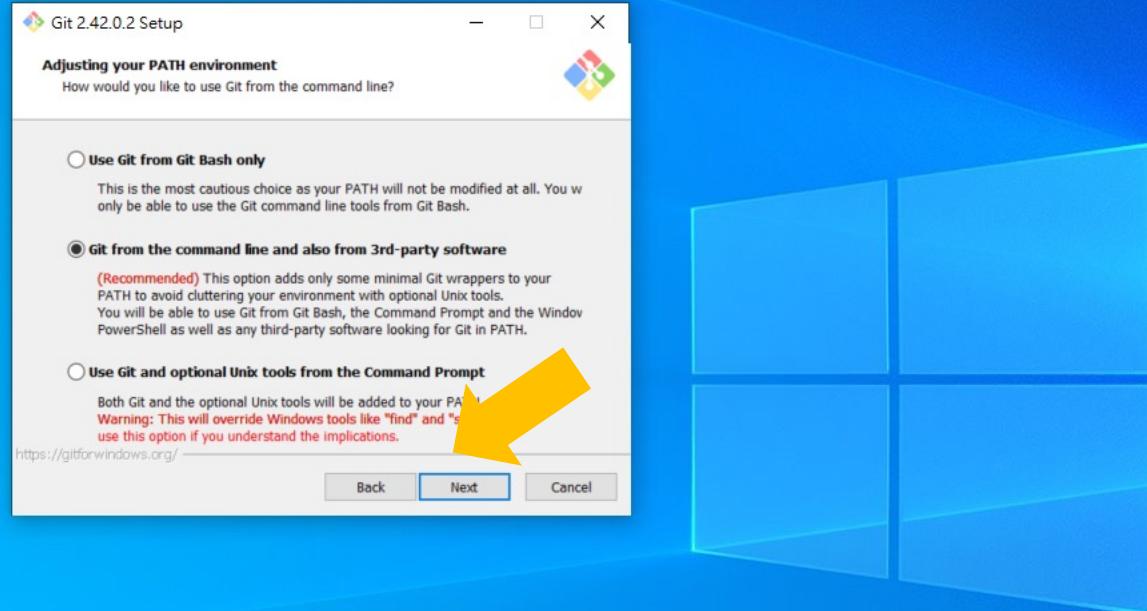
Click “Next”



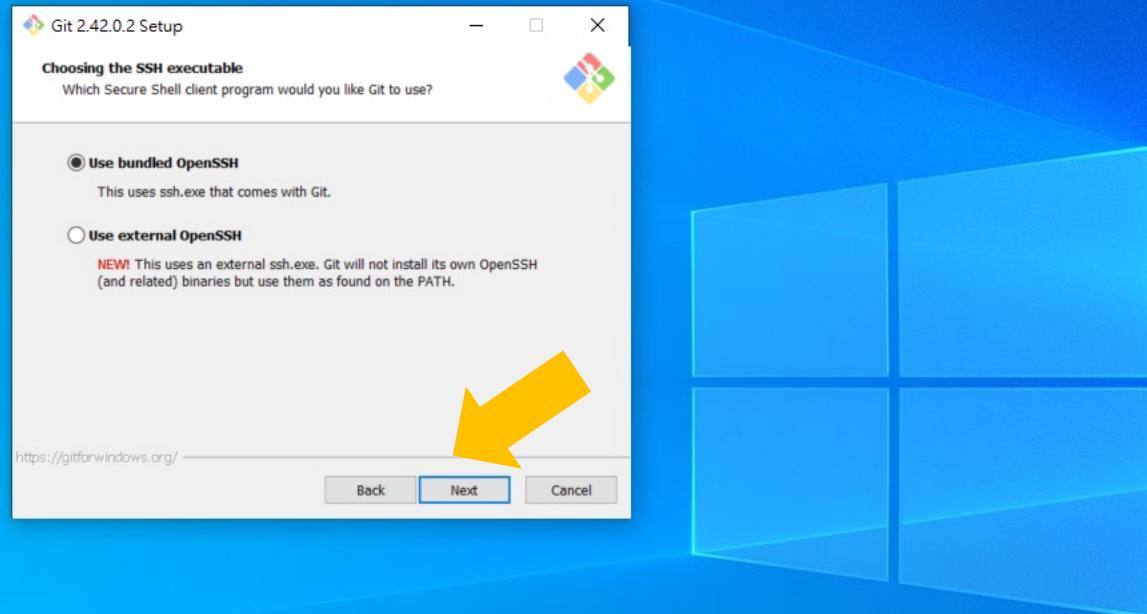
Click "Next"



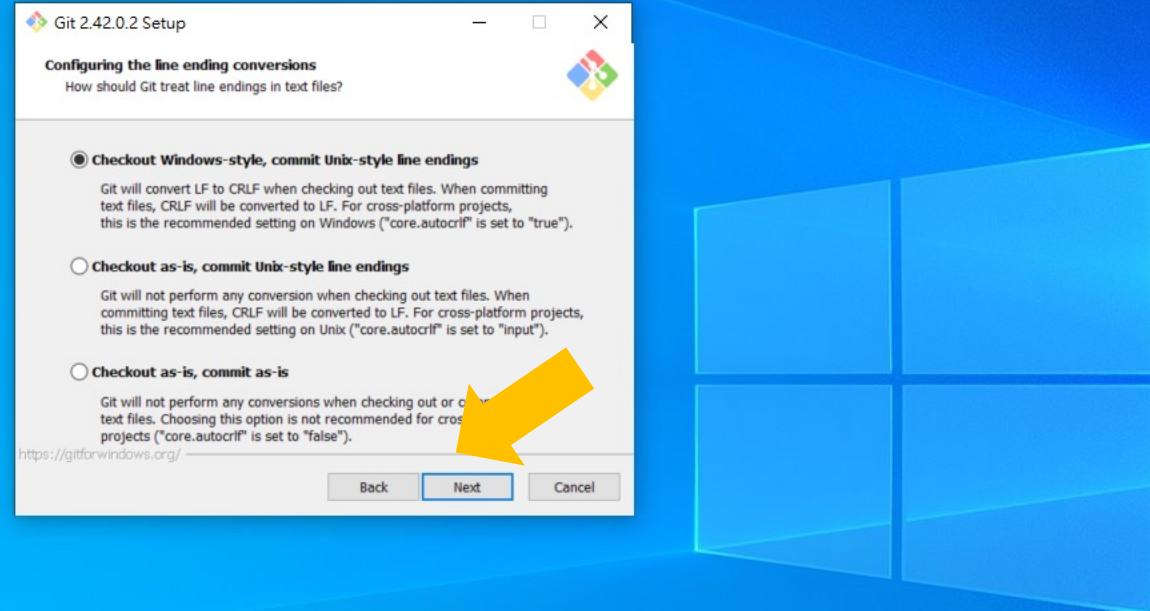
Click "Next"



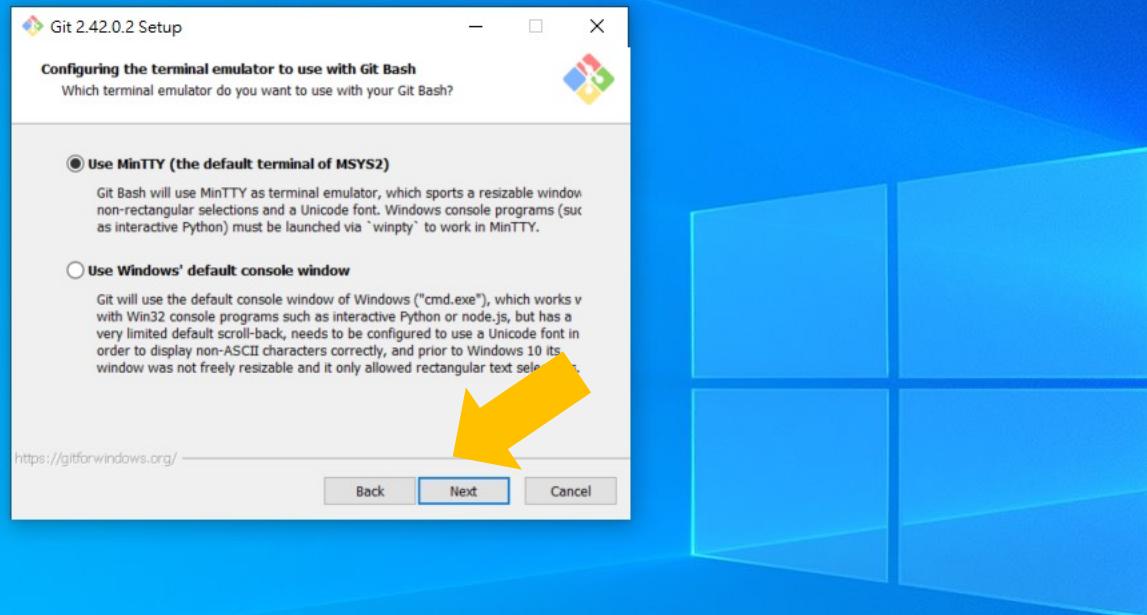
Click "Next"



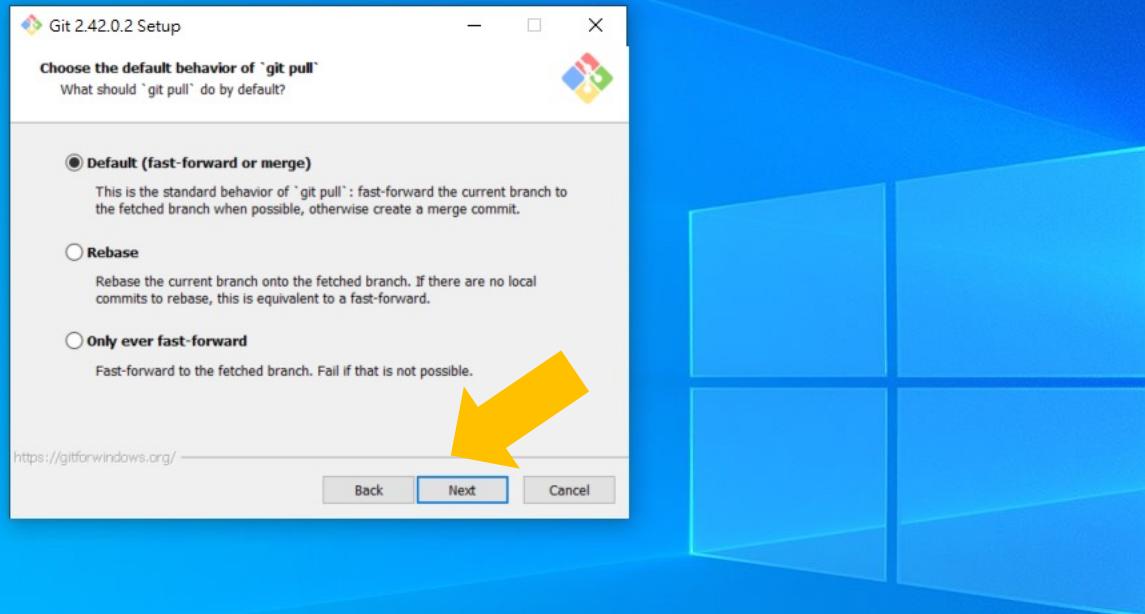
Click "Next"



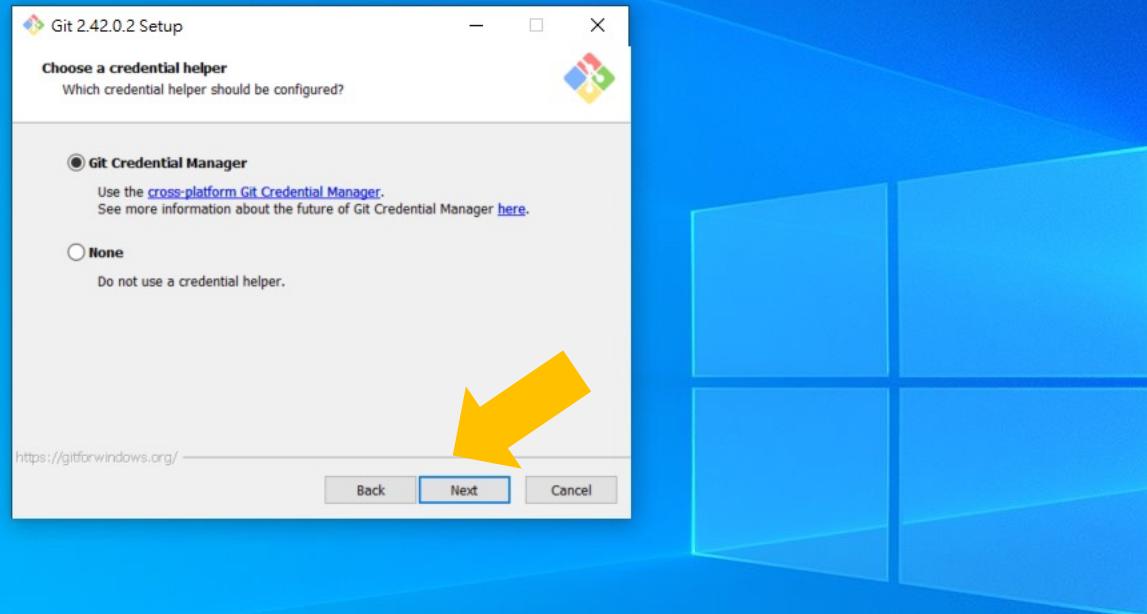
Click "Next"



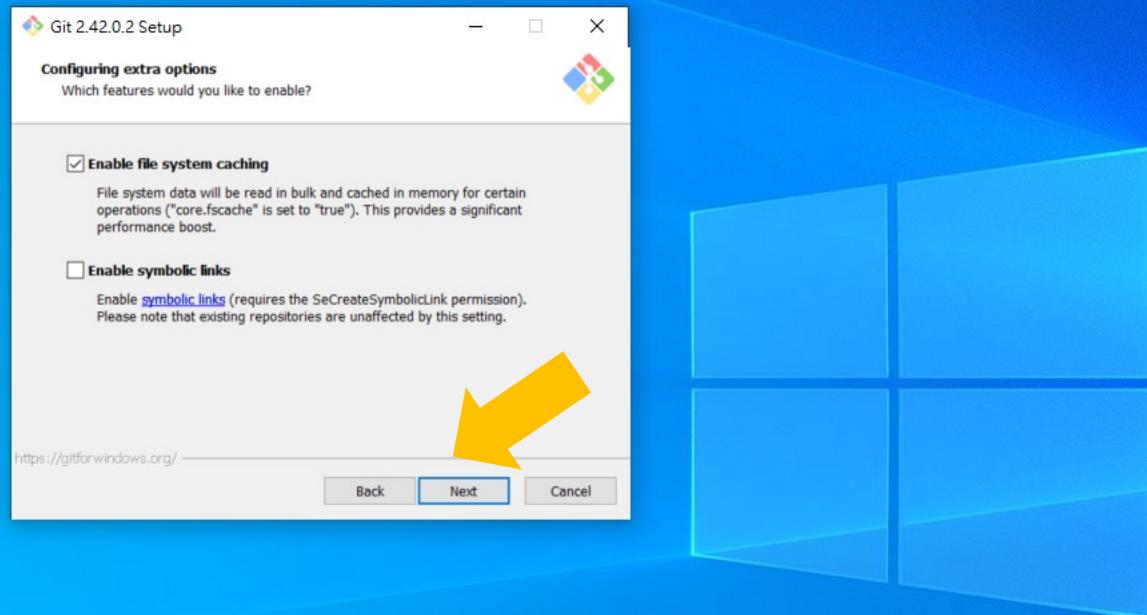
Click "Next"



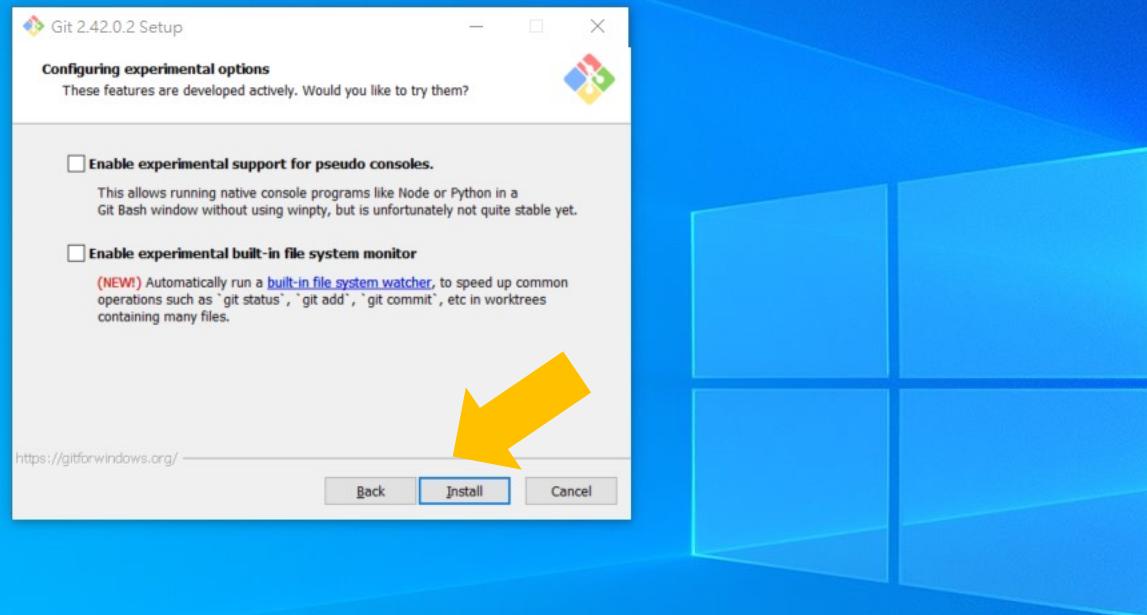
Click "Next"



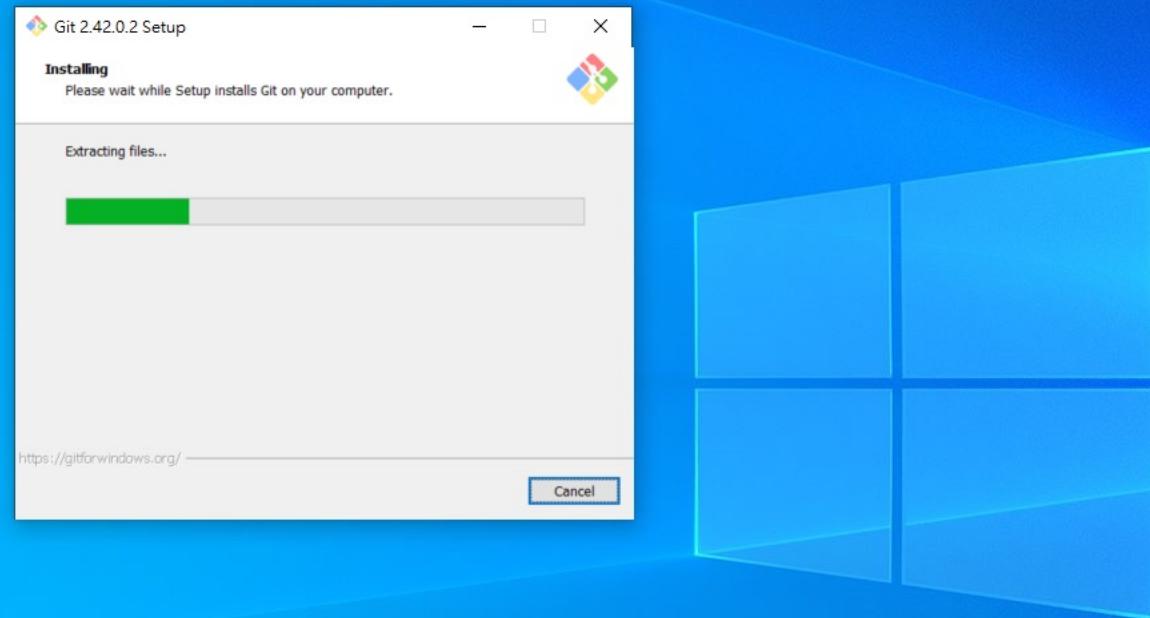
Click "Next"



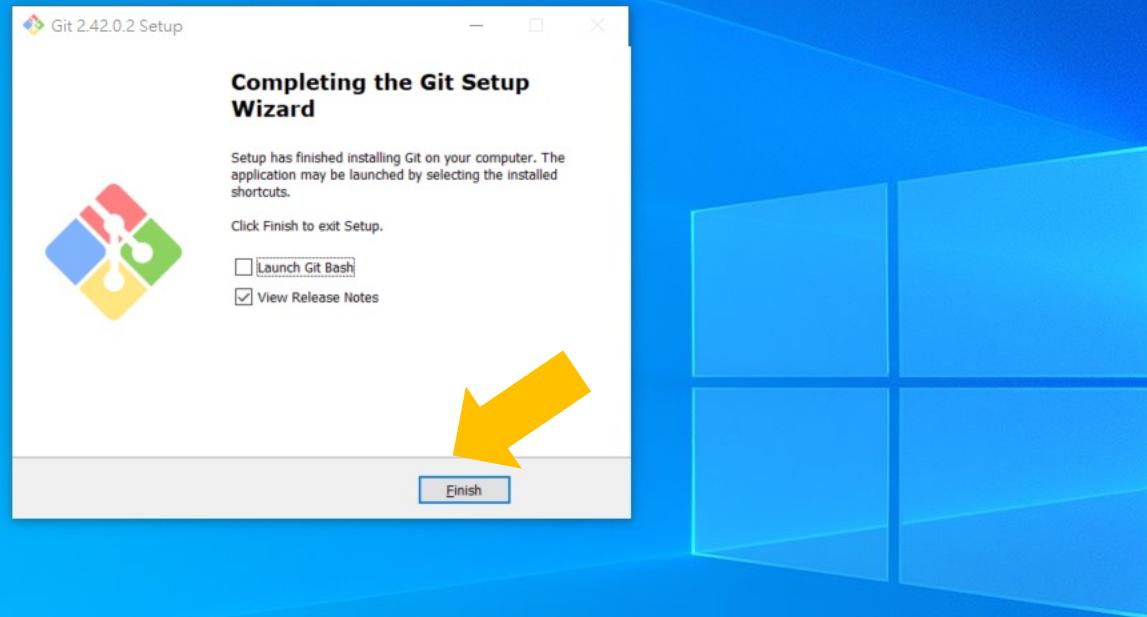
Click "Install"



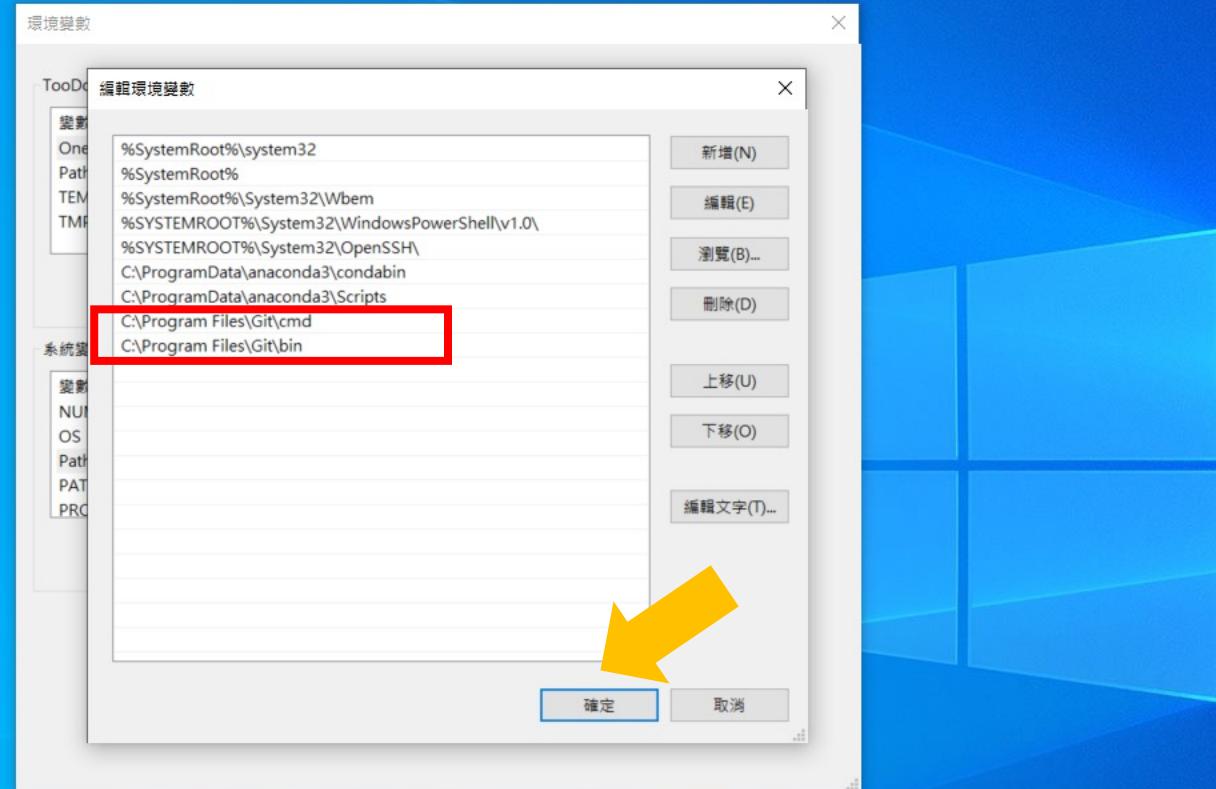
Installing Git



Click "Finish"



Set “環境變數” (environmental variables)



GitHub - CSSEGISandData/COVID-19

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This repository has been archived by the owner on Mar 10, 2023. It is now read-only.

<https://github.com/CSSEGISandData/COVID-19>

Code Issues 1.7k Pull requests 285 Actions Projects Security Insights

master 1.603 branches 0 tags Go to file Code

CSSEGISandData Update README.md 4360e50 on Mar 10 7,691 commits

archived_data archived_0325 3 years ago

csse_covid_19_data Automated update 6 months ago

who_covid_19_situation_reports update who readme 3 years ago

.gitignore update 4 years ago

README.md Update README.md 6 months ago

Novel Coronavirus (COVID-19) Cases, provided by JHU CSSE

[systems.jhu.edu/research/public-health/...](https://systems.jhu.edu/research/public-health/)

engineering johns-hopkins-university jhu csse 2019-ncov coronavirus covid-19 systems-science

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Releases No releases published

Packages No packages published

Used by 1

Download COVID-19 Data from JHU

Novel Coronavirus (COVID-19) Cases, provided by JHU CSSE

systems.jhu.edu/research/public-health/...

engineering johns-hopkins-university jhu csse 2019-ncov coronavirus covid-19 systems-science

Readme Activity 29.2k stars 869 watching 18.7k forks Report repository

Releases No releases published

Packages No packages published

Used by 1

COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University

On March 10, 2023, the Johns Hopkins Coronavirus Resource Center ceased its collecting and reporting of global COVID-19 data. For updated cases, deaths, and vaccine data please visit the following sources:

- Global: [World Health Organization \(WHO\)](#)
- U.S.: [U.S. Centers for Disease Control and Prevention \(CDC\)](#)

For more information, visit the [Johns Hopkins Coronavirus Resource Center](#).

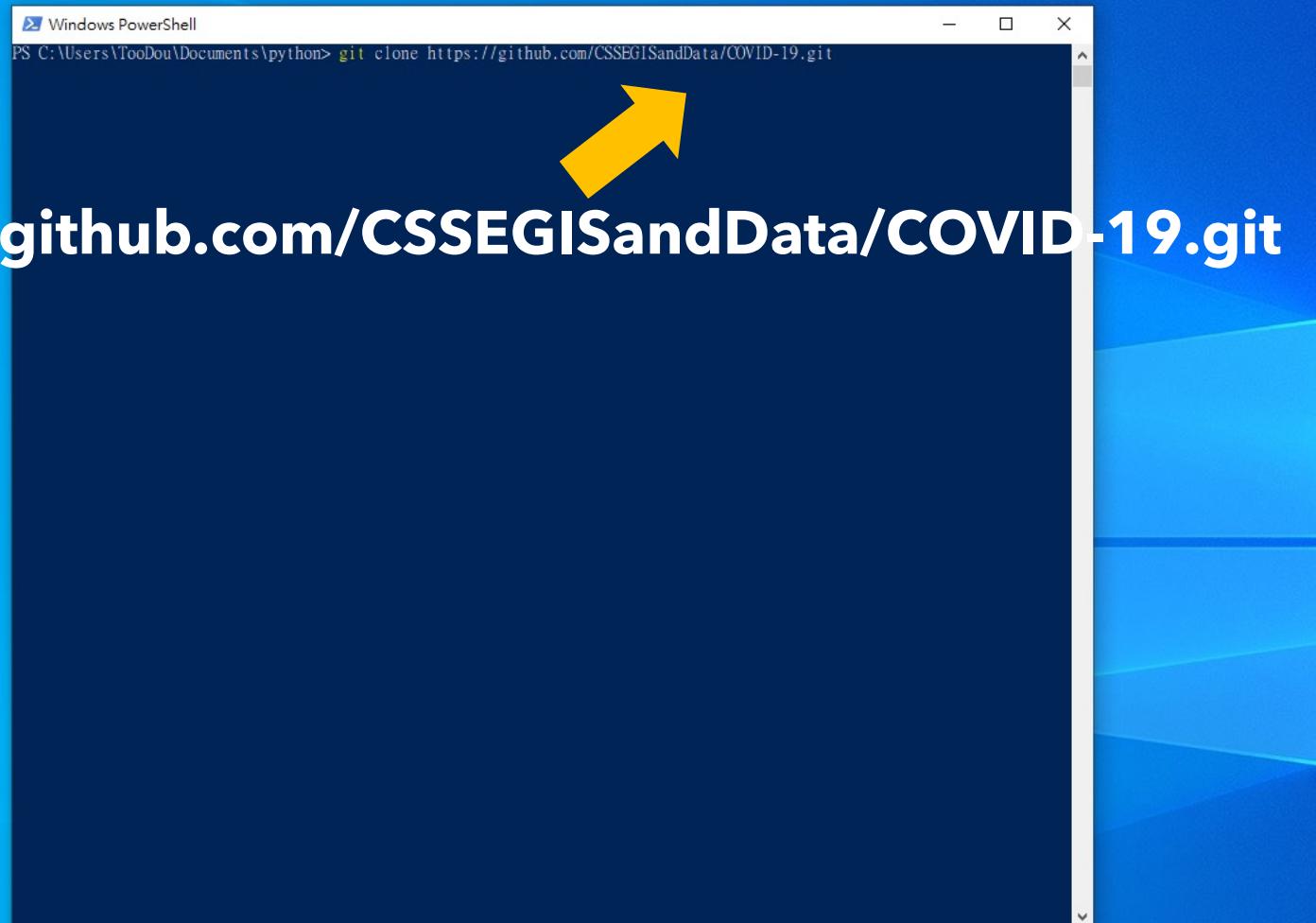
25 September 2023

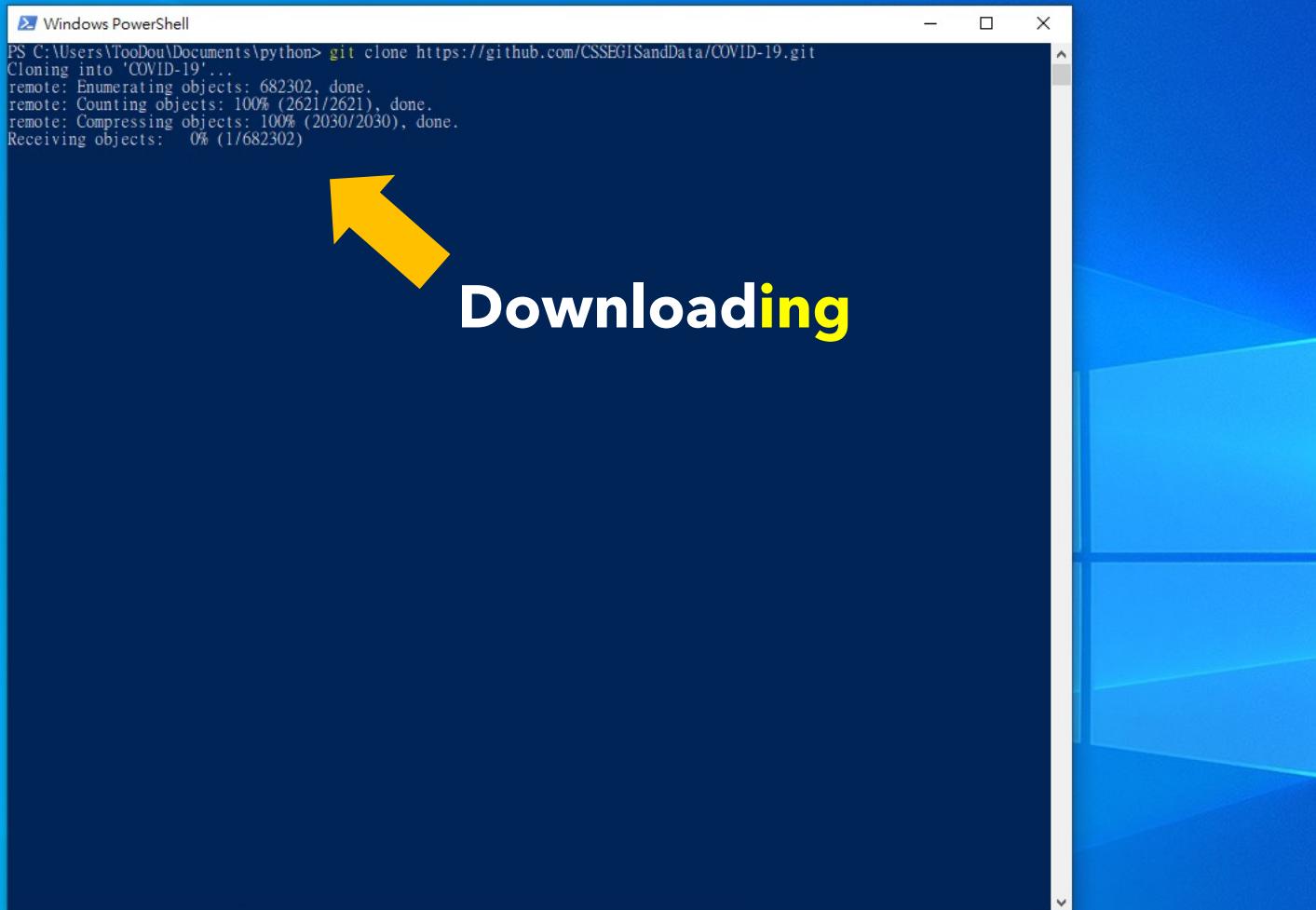
Chun-Hsiang Chan (2023)

68 下午 09:19
2023/9/10

Open terminal...

git clone https://github.com/CSSEGISandData/COVID-19.git





A Windows PowerShell window titled "Windows PowerShell" is open on a blue desktop background. The command PS C:\Users\TooDou\Documents\python> git clone https://github.com/CSSEGISandData/COVID-19.git is running. The output shows the cloning process: "Cloning into 'COVID-19'...", "remote: Enumerating objects: 682302, done.", "remote: Counting objects: 100% (2621/2621), done.", "remote: Compressing objects: 100% (2030/2030), done.", and "Receiving objects: 0% (1/682302)". A large yellow arrow points from the word "Downloading" to the "Receiving objects" progress bar.

Downloading



The End

Thank you for your attention!

Email: chchan@ntnu.edu.tw

Web: toodou.github.io

